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Vocabulary Builder Reference from...

David MacKay: A reality check on renewables | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

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.

revolution

n. a large-scale attempt to overthrow the government of a country, often using violence or war;

synonym : coup, innovation, rebellion

(1) beginning of the industrial **revolution**, (2) a political **revolution**

The **revolution** by the citizen resulted in a redistribution of wealth.

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.

underneath

adv. under or below something else

synonym : below, under, beneath

(1) **underneath** the surface of the water, (2) **underneath** the laughter

The penny fell **underneath** the piano.

coal

n. a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat

synonym : ember

(1) a **coal-fired** ship, (2) construction of new **coal** plants

We combust **coal** and other fossil fuels to generate electricity.

temporary

adj. not lasting or be used for a very long

synonym : provisional, short-term, interim

(1) a **temporary** permit, (2) **temporary** housing

He managed to get **temporary** jobs during the recession.

domination

n. the act of having control or power over someone or something

synonym : control, power, rule

(1) fall under foreign **domination**, (2) **domination** power

The **domination** of the Roman Empire over the Mediterranean region lasted for centuries.

peak

n. the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain

synonym : summit, vertex, apex

(1) at **peak** hour, (2) the **peak** current in the circuit

This measurement aims to reduce traffic at **peak** periods.

decline

v. to become gradually smaller, fewer, worse, etc.; to refuse to accept

synonym : descend, drop, deny

(1) **decline** a job offer, (2) **decline** in quality

As people age, their digestive capacity also gradually

declines.

observation

n. the act or activity of carefully examining or monitoring something or someone

synonym: watching, notice, reflection

(1) class **observation** day, (2) **observation** instrument

In the hospital, she will remain under constant **observation**.

finite

adj. having a limit or restriction of size, time, etc.

synonym: delimited, defined, limited

(1) **finite** resources, (2) **finite** decimal

Human beings have a **finite** lifespan, so we yearn for the idea of immortality.

accessible

adj. capable of being reached, easily got, or seen

synonym: affordable, available, unrestricted

(1) a town **accessible** by rail, (2) **accessible** to pity

He is an **accessible** and genial man.

security

n. the state of being free from danger, risk, or harm; measures taken to protect against threats or attacks; a financial asset, such as a stock or bond that derives value exclusively from the ownership interest or claim to a particular underlying asset or obligation

synonym: safety, protection, stock

(1) national **security**, (2) **security** analyst

The building's **security** system includes cameras, alarms, and security guards.

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
- motivation** *n.* the reason or enthusiasm for acting or behaving in a particular way
synonym : inspiration, incentive, reason
(1) understand his **motivation**, (2) **motivation** for a change
A significant amount of **motivation** is required to be a teacher.
- 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.
- fluff** *n.* soft, light particles or fibers that are often shed from fabrics or stuffing materials; excessively or trivially sentimental language or ideas that lack substance or depth; (verb) to make something soft, light, or loose by shaking or stirring it up; to make a mistake or blunder, especially while performing or speaking in public
synonym : down, fuzz, lint
(1) **fluff** ball, (2) **fluff** formation
The teddy bear's fur was so soft and full of **fluff**.
- greenwashing** *n.* the practice of making deceptive or exaggerated claims about the environmental benefits of a product or service to appeal to eco-conscious consumers
(1) **greenwashing** campaign, (2) **greenwashing** accusations
Many companies engage in **greenwashing** to appeal to

environmentally conscious consumers without actually making significant changes to their products or practices.

mislead

v. to cause someone to believe something that is not true
synonym: misinform, delude, belie

(1) **mislead** him into trusting her, (2) **mislead** the enemy
Our troops pulled back to **mislead** the enemy.

advertise

v. to draw attention to something such as a product, service, or event in public to encourage people to buy, use, or attend it

synonym: publicize, announce, promote

(1) **advertise** the campaign, (2) **advertise** on social media
We want to **advertise** our company through your media.

physicist

n. a scientist who specializes in the field of physics

(1) talented **physicist**, (2) theoretical **physicist**

Einstein was an outstanding and famous **physicist** of the 20th century.

clap

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

synonym: applaud, spat, acclaim

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

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

illustrate

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

synonym: demonstrate, explain, exemplify

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

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

envelop

v. to surround and cover completely; to encase

synonym: wrap, cover, surround

(1) **envelop** the whole world, (2) **envelop** her in a bear hug

The fog **enveloped** the city, making it difficult to see.

calculation

n. the act or process of using numbers to judge an amount of something

synonym: analysis, computation, estimate

(1) make a **calculation**, (2) **calculation** of loss and gain

The error in the **calculation** was attributable to rounding.

numb

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

synonym: dazed, insensitive, emotionless

(1) **numb** with cold, (2) a **numb** mind

My left arm became **numb**.

accurate

adj. correct and exact in all details

synonym: exact, precise, proper

(1) provide **accurate** information, (2) **accurate** measurements

The official transcript contains **accurate** academic records.

biofuel

n. a fuel produced from organic matter, such as crops or waste material, that can be used to replace or supplement traditional fossil fuels

synonym: renewable energy, green fuel, alternative fuel

(1) **biofuel** production, (2) **biofuel** technology

The airplane was powered by a **biofuel** made from plant-based materials.

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.

verge

n. the point at which something is about to happen or where something begins; the edge or margin of something, particularly a physical boundary or border

synonym : brink, edge, margin

(1) **verge** of bankruptcy, (2) on the **verge** of tears

He stood on the **verge** of a major discovery.

gallon

n. a unit for measuring volume, in the US, it is equal to about 3.79 liters, and in the UK, Canada, and other countries, it is equal to about 4.55 liters

(1) 5- **gallon** square can, (2) ten- **gallon** hat

The imperial **gallon** was standardized legally by the British Empire.

productivity

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

synonym : efficiency, output, performance

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

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

plantation

n. a large farm or estate, typically in a tropical or subtropical country, used for growing cash crops

synonym : estate, farm, manor

(1) a rubber **plantation**, (2) **plantation** house

The former **plantation** owner struggled to adjust to life without the enslaved people that once worked for him.

hectare

n. a unit of area equal to 10,000 square meters

(1) **hectare** land, (2) housing per **hectare**

The farm spans over 100 **hectares** of land.

meter

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

synonym : gauge, indicator, rhythm

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

The **meter** on the wall showed that the room was three

meters long.

perpetual

adj. continuing for an extended period in the same way without stopping or being interrupted

synonym: enduring, unchanging, incessant

(1) **perpetual** motion machine, (2) **perpetual** struggle
The company employs a **perpetual** inventory system.

divide

v. to separate or cause to separate into parts or groups

synonym: separate, disconnect, split

(1) **divide** the cake into two pieces, (2) **divide** money equally

Can you **divide** 123321 by eleven?

assume

v. to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance

synonym: guess, presume, suppose

(1) **assume** a lousy attitude to his boss, (2) **assume** an important role

The following example **assumes** that the capacity of each battery is the same.

kingdom

n. the country ruled by a king or queen

synonym: empire, realm, land

(1) establish his **kingdom**, (2) a subordinate **kingdom**

By remaining neutral, this **kingdom** continued to exist.

consumption

n. the amount used or eaten; the act of using up a resource such as energy, food, or materials

synonym: usage, uptake, utilization

(1) average fuel **consumption**, (2) the **consumption** of food

In our country, water **consumption** usually decreases during the winter.

quantify

v. to express or measure something in numerical terms
synonym: measure, express, determine

(1) **quantify** the results, (2) **quantify** blood flow

He tried to **quantify** the amount of product that was needed to complete the job.

bulb

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

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

The light **bulb** has burned out.

watt

n. a standard unit for measuring electrical power

(1) 30- **watt** light bulb, (2) **watt** per square meter

Several hectares of land are needed to generate more than 1-mega **watt** solar power.

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.

relative

adj. considered and evaluated through comparison with something else

synonym: comparative, proximate, congeneric

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

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

footprint

n. a mark of a foot, shoe, or animal's foot left on a surface

synonym: footmark, imprint, impression

(1) **footprints** in the snow, (2) the **footprints** of an earlier civilization

We choose transportation that has a smaller carbon **footprint**.

embody

v. to represent or exemplify something; to give tangible form to an abstract idea

synonym: represent, exemplify, personify

(1) **embody** my goal, (2) **embody** a spirit of charity

The company's new products **embody** the values of innovation and sustainability.

import

v. to bring goods or services into a country from another country; to transfer electronic data into a database or document;

synonym: bring, spell

(1) **import** goods, (2) **import** a style sheet

The company **imports** raw materials from other countries to manufacture its products.

nuclear

adj. of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy

synonym: atomic

(1) **nuclear** fusion, (2) use of **nuclear** power

Many countries have now agreed to a treaty banning the use of **nuclear** weapons.

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.

population

n. the total number of people in a country, region, or location

synonym: people, inhabitants, folk

(1) **population** change, (2) labor **population**
In just four years, the **population** has doubled.

density

n. the quality of compactness of a substance
synonym: tightness, viscosity

(1) population **density**, (2) higher pixel **density**
Do you know the **density** of the population in Hong Kong?

vertical

adj. upright or perpendicular to a horizontal surface or line
synonym: perpendicular, upright, plumb

(1) **vertical** takeoff, (2) **vertical** axis
The ladder leaned against the **vertical** surface of the building.

axis

n. a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance

synonym: central, core, pole

(1) vertical **axis**, (2) a coordinate **axis**
The earth's **axis** of rotation is tilted 66.5 degrees to the ecliptic plane.

dot

n. a very small circular mark, especially one that is printed
synonym: drop, dab, fleck

(1) connecting the **dots**, (2) **dot** blot method
The wallpaper had a pattern of pink **dots** on a white surface.

horizontal

adj. parallel to the ground or in a baseline; being at the same level as all members of a group

synonym: even, lying, parallel

(1) **horizontal** lines, (2) **horizontal** stripes
Airplanes need **horizontal** tails to improve stability.

emphasize

v. to give or show particular importance to something
synonym: highlight, accentuate, stress

(1) **emphasize** her words, (2) **emphasize** a direct

relationship

Use italics or capitals to **emphasize** a word in a piece of writing.

ax

n. a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials

synonym: hatchet, chopper, tomahawk

(1) chop wood with an **ax**, (2) an **ax** in the toolbox

He used an **ax** to chop the firewood for the campfire.

logarithmic

adj. of or relating to logarithms (= the exponent that shows how many times a number has to be multiplied by itself to produce a given number)

synonym: exponential, logarithmical

(1) a **logarithmic** table, (2) **logarithmic** function

The **logarithmic** scale of the graph made it easier to compare the different values.

sub-Saharan

adj. of or relating to or situated in the area south of the Sahara Desert

(1) **sub-Saharan** Africa, (2) **sub-Saharan** countries

The coffee producers in **sub-Saharan** countries are at the sharp end of fluctuations in price.

purple

adj. of a color intermediate between red and blue

synonym: violet

(1) deep **purple**, (2) **purple** sweet potatoes

The plant has a stunning **purple** blossom.

diversity

n. the quality or fact of many different types of things or people being included in something; a range of different things or people

synonym: variety, multiplicity, variousness

(1) the **diversity** policy of the university, (2) lingual **diversity**

He was impressed by the range and **diversity** of the

collection.

capita

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

synonym : head, headcount, person

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

enormous

adj. extremely large or great

synonym : huge, giant, gigantic

(1) **enormous** amount, (2) **enormous** potential
Shakespeare's output of poetry was **enormous**.

roughly

adv. approximately but not precisely; with a violent manner

synonym : approximately, more or less, around

(1) **roughly** explain my idea, (2) **roughly** speaking
Five miles is **roughly** similar to eight kilometers.

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.

diagram

n. a simplified illustration of the appearance, structure, or workings of something

synonym : chart, figure, graph

(1) 3D **diagram**, (2) in a **diagram**

He is drawing a **diagram** illustrating how the equipment operates.

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.

slightly

adv. in a small degree or extent; a little

synonym: barely, narrowly, scarcely

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

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

accompany

v. to go somewhere or travel with someone or something

synonym: follow, escort, attend

(1) **accompany** a chicken dish, (2) **accompany** the book

Please let me know if you want to **accompany** me to my hometown.

bunch

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

synonym: group, assemblage, bundle

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

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

odd

adj. strange or unexpected; not divisible by two

synonym: strange, bizarre, abnormal

(1) in an **odd** way, (2) **odd** behavior

His grandfather was an **odd** man.

relevance

n. the state or degree of being closely connected or appropriate to the matter at hand

synonym: pertinence, applicability, connection

(1) have no **relevance**, (2) **relevance** category

The **relevance** of this information to the current situation needs to be investigated.

crop

n. a plant that is cultivated in large amounts, particularly for food

synonym: output, produce, product

(1) **crop** field, (2) **crop** herbicide
Sow early for an early **crop**.

anticipate

v. to expect or predict that something will happen; to tell in advance

synonym: forecast, predict, expect

(1) **anticipate** your kind cooperation, (2) **anticipate** a black future

We **anticipate** heavy snowfall tomorrow.

literally

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

synonym: actually, truly, verily

(1) translate **literally**, (2) bite his tongue **literally**

He **literally** jumped out of his chair when he heard the news.

assert

v. to state something firmly and confidently, often in a way that is intended to convince others that it is true

synonym: maintain, state, declare

(1) **assert** a free society, (2) **assert** a claim for unjust enrichment

She **asserted** that she was innocent, despite the evidence against her.

solar

adj. of, from, or relating to the sun

(1) the **solar** system, (2) a **solar** eclipse

Solar panels have greatly improved not only in performance but also in durability.

panel

n. a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something

synonym: board, commission, discussion

(1) **panel** discussion, (2) cost of solar **panels**

A **panel** of economic advisers from the United States visited

the country to help rebuild its economy.

adopt

v. to choose to follow something; to legally take a child from another family and care for them as if they were one's own

synonym : accept, assume, take on

(1) **adopt** a child, (2) **adopt** a bill

The national assembly has **adopted** the budget.

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.

leap

v. to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward

synonym : jump, bound, hop

(1) **leap** to a conclusion, (2) **leap** of faith

The athlete was able to **leap** over the hurdle with ease.

countryside

n. rural areas or regions outside of cities and urban centers often characterized by open fields, farmland, forests, and countryside scenery

synonym : rural, rustic, pastoral

(1) **countryside** scenery, (2) **countryside** lifestyle

The small village in the **countryside** was perfect for a quiet getaway.

gap

n. a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.

synonym : opening, lacuna, spread

(1) the **gap** between ideal and reality, (2) distance **gap**

Many people are working together to close the gender **gap**.

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.

arithmetic

n. the branch of mathematics that deals with numbers and numerical calculations, particularly the four basic operations of addition, subtraction, multiplication, and division

synonym : computation, calculation, math

(1) decimal **arithmetic**, (2) mental **arithmetic**

The abacus is an ancient counting device that was used for **arithmetic** calculations.

concentration

n. the ability to focus all your time and energy on one thing without thinking about anything else.

synonym : attention, engagement, assiduity

(1) **concentration** of armaments, (2) his research area of **concentration**

This exam requires excellent **concentration** to pass.

desert

n. arid land with little or no vegetation often covered with sand or rocks

(1) **desert** basin, (2) oasis in the **desert**

This region is predominantly **desert**.

facility

n. a building or place that provides a particular service or is used for a particular industry

synonym : building, structure, installation

(1) a cell phone with an internet **facility**, (2) **facility** design

This company has an entire recycling **facility**, including major reprocessing plants.

generous

adj. willing to give and share something such as money, help, kindness, etc., especially more than is necessary or expected

synonym : charitable, benevolent, giving

(1) a **generous** reward, (2) a **generous** and thoughtful person

This teacher is **generous** in his grading.

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.

summary

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

synonym : outline, digest, overview

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

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

diffuse

adj. spread out widely; not concentrated in one place

synonym : spread, scatter

(1) **diffuse** bleeding, (2) **diffuse** cloud

Direct lighting is preferable to **diffuse** lighting when reading.

substantial

adj. fairly large in size, value, or importance

synonym : significant, notable, actual

(1) a **substantial** amount of capital, (2) have a **substantial** meal

The pandemic was a **substantial** business opportunity for certain companies.

fraction

n. a small part or item forming a piece of a whole; the quotient of two rational numbers

synonym : piece, part, fragment

(1) a **fractional** share of the vote, (2) a numerator in a

fraction

He spent only a **fraction** of his earnings.

opt

v. to make a choice from a range of possibilities

synonym: choose, select, pick

(1) **opt** out of society, (2) **opt** for a traditional wedding

I decided to **opt** for premature retirement.

generate

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

synonym: create, yield, produce

(1) **generate** more electricity, (2) **generate** \$100 a month

The economic stimulation program would **generate** a lot of new jobs.

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.

ordinance

n. a law or regulation enacted by a local government or governing authority; typically used about laws that concern public health, safety, or morals

synonym: regulation, decree, law

(1) city **ordinance**, (2) county **ordinance**

The town council passed an **ordinance** banning the use of plastic bags.

survey

n. an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions

synonym: study, examination, poll

(1) a comprehensive **survey**, (2) recent **survey**

That **survey** shows that people are accepting the tax increase to some extent.

metric

adj. using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic

synonym : metrical, measured

(1) **metric** units, (2) key performance **metrics**

In the **metric** system, measurements are made in meters and liters.

intrude

v. to enter or to be present in a place or situation where one is not wanted or allowed; to interrupt or disturb someone or something

synonym : impose, obtrude, interlope

(1) **intrude** on his personal space, (2) **intrude** on other people's conversations

The loud music from the party next door **intruded** into my peaceful evening at home.

popularity

n. the state of being widely accepted, admired, or appreciated by many people

synonym : acclaim, fame, reputation

(1) win **popularity**, (2) **popularity** in the market

The **popularity** of the band has skyrocketed since their first album was released.

photograph

n. a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film

synonym : photo, picture, snapshot

(1) **photograph** album, (2) **photograph** memories

I found an old **photograph** of my grandparents from their wedding day.

consult

v. to seek or get advice or information from a person, book, or other source having special knowledge on a particular

subject

synonym : confer, consider, see

(1) regularly **consult** with a doctor, (2) **consult** my wallet
Always **consult** a lawyer before launching a business.

celebrate

v. to acknowledge a memorable or good day or event with a social gathering or enjoyable activity

synonym : praise, glorify, honor

(1) **celebrate** his election, (2) **celebrate** Christmas
He **celebrated** the 10th anniversary of his tenure.

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.

effigy

n. a representation of a person or thing, especially in the form of sculpture

synonym : statue, sculpture, representation

(1) wax **effigy**, (2) a material **effigy**

The king's **effigy** was carved into the throne to symbolize his authority.

windmill

n. a machine that uses wind power to generate mechanical energy or electricity

synonym : wind turbine, aerogenerator

(1) **windmill** blades, (2) **windmill** energy

The countryside was dotted with picturesque **windmills**.

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.

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.

politely

adv. in a courteous or respectful manner, showing good manners or consideration for others

synonym : courteously, respectfully, graciously

(1) **politely** ask, (2) nodded **politely**

She **politely** declined the invitation to the party, saying she had other plans.

backyard

n. a whole space behind and belonging to a house

synonym : courtyard, garden

(1) play in the **backyard**, (2) **backyard** barbecue

He grows vegetables in his **backyard**.

handle

v. to deal with a situation, problem, or strong emotion

synonym : control, manage, deal with

(1) **handle** a precious object, (2) **handled** the incident

We all should learn how to **handle** stress.

addition

n. the act or process of adding something to something else; the process of adding numbers

synonym : accumulation, expansion, addendum

(1) chemical **addition**, (2) **addition** of vectors

In **addition**, private corporations provide healthcare services.

lever

n. a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily

synonym : lifter, crowbar, bar

(1) a gear change **lever**, (2) **lever** for reform

This initiative will be a **lever** for increasing company sales.

physics

n. the science of matter and energy and their interactions
(1) nuclear **physics**, (2) laws of **physics**
He studied the **physics** of radiation.

principle

n. a fundamental law or truth that explains or controls how something happens or works
synonym: rule, creed, code
(1) **principle** of treatment, (2) **principle** in business
Efficiency isn't an essential **principle** here; fairness is.

efficient

adj. performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
synonym: productive, effective, competent
(1) **efficient** operation, (2) energy- **efficient** appliances
The new washing machine is much more **efficient** than the old one.

typical

adj. having the usual characteristics or traits of a specific group of things
synonym: characteristic, usual, distinctive
(1) **typical** leader, (2) fairly **typical** symptoms
This artwork is **typical** of her work.

persuade

v. to convince or induce someone to do something by presenting a reason or argument; to sway or influence someone's decision or opinion
synonym: convince, influence, sway
(1) attempt to **persuade**, (2) **persuade** enough people
She tried to **persuade** her brother to join her on the trip, but he was too busy with work.

comfort

n. a state of physical ease and freedom from pain or constraint
synonym: ease, solace, coziness
(1) words of **comfort**, (2) **comfort** level

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

accommodate

v. to provide someone with a place to live or to be stored in; to make fit for or to change to suit a new purpose

synonym : house, rent, adjust

(1) **accommodate** a person with money, (2) **accommodate** these needs

This large SUV **accommodates** eight people.

traffic

n. the movement of vehicles, people, or goods along a route or through a transport system; the amount of such movement in a particular place or at a particular time

synonym : congestion, jam, flow

(1) **traffic** jam, (2) heavy **traffic**

We decided to take a detour to avoid the construction **traffic** on the main road.

cone

n. a geometric shape that tapers to a point at one end and has a circular base at the other end

(1) traffic **cone**, (2) ice cream **cone**

Cone-shaped cells in the eye's retina are responsible for color vision and visual acuity.

realistic

adj. having or showing a sensible and practical idea that is possible to achieve

synonym : practical, pragmatic, down-to-earth

(1) a **realistic** goal, (2) a **realistic** goal

That story was so **realistic**, and it was scary.

petrol

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

synonym : gasoline, fuel, gas

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

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

crappy

adj. of poor quality; not satisfactory

synonym : poor, unsatisfactory, inferior

(1) **crappy** service, (2) **crappy** Spanish

The food at the restaurant was **crappy** and overpriced.

temperature

n. the degree of hotness or coldness of a thing or place

synonym : climate, warmth, degree

(1) extreme **temperatures**, (2) the atmospheric

temperature

Cities around the world set records for highest **temperatures** this summer.

remarkable

adj. worthy of attention because unusual or special

synonym : outstanding, exceptional, extraordinary

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

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

thermostat

n. a device that automatically regulates temperature by controlling the heating or cooling system based on the temperature in a room or building

synonym : thermoregulator, climate control

(1) **thermostat** settings, (2) smart **thermostat**

The digital **thermostat** has a programmable feature, and it can be controlled through your smartphone.

grasp

v. to take hold of something or someone quickly and firmly

synonym : grab, clasp, grip

(1) **grasp** his hand, (2) **grasp** a chance

They spent a lot of time trying to **grasp** the current situation.

rotate

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

synonym : turn, revolve, spin

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

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

leaky

adj. having a hole or crack that allows liquids or gases to pass through it

synonym : faulty, permeable, porous

(1) heal **leaky** gut, (2) **leaky** bucket

The boat had a **leaky** hull and needed to be patched.

forth

adv. forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open

synonym : forward, onwards, ahead

(1) bring **forth** a beautiful vase, (2) call **forth** demand

I pushed **forth** with my new project, even though it would take much hard work.

external

adj. belonging to or situated outside of someone or something

synonym : outside, exterior, foreign

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

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

insulation

n. the act or process of covering something to stop heat, sound, electricity, etc. from passing through; the materials used for this

synonym : cushioning, covering, nonconductor

(1) additional sound **insulation**, (2) **insulation** board

He installed fiberglass **insulation** in the wall.

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.

pump

v. to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities

synonym: drain, inject, send

(1) **pump** a secret out of success, (2) **pump** blood throughout the body

He was alert and could not **pump** any critical information out of him.

grade

n. a particular level of quality, size, importance, etc.

synonym: score, rate, degree

(1) boys in the twelfth **grade**, (2) students at all **grade** levels
Departments may set requirements for a higher **grade** point average.

graph

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

synonym: chart, diagram, figure

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

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

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.

sustainable

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

synonym: continuable, endurable, tolerable

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

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

embarrass

v. to cause someone to feel awkward, worried, or ashamed
synonym: disconcert, unsettle, agitate

(1) **embarrass** political enemy, (2) **embarrass** my project
He looked for an opportunity to **embarrass** that actor in public.

experiment

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

synonym: experimentation, investigation

(1) **experiment** design, (2) series of **experiments**
His **experiments** showed highly positive results.

plummet

v. to fall or drop suddenly and steeply; to decline rapidly or sharply

synonym: drop, plunge, fall

(1) **plummeting** sales, (2) **plummet** against other major currencies

The stock prices have **plummeted** in the last hour, causing concern for investors.

tinker

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

synonym: fiddle, play, fix

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

peripheral

adj. relating to, located on or near, or constituting an outer boundary or edge; not central or essential

synonym: outer, minor, secondary

(1) **peripheral** vision, (2) **peripheral** devices

The city's **peripheral** areas should be given more attention regarding infrastructure and resources.

advocate

n. a person who supports or suggests an idea, development, or way of doing something

synonym: proponent, exponent, promoter

(1) an **advocate** of disarmament, (2) public education **advocates**

Advocates of abolishing the death penalty often argue that the alternative heaviest sentence should be life in prison.

conversation

n. an informal talk between two or more people to exchange their views, ideas, information, etc.

synonym: chat, discussion, dialogue

(1) **conversation** in English, (2) a friendly **conversation**
Your **conversation** reflects your thoughts.

visual

adj. relating to seeing or sight

synonym: optical, graphical, visible

(1) **visual** navigation, (2) field of **visual** arts
The building makes a remarkable **visual** impact.

requirement

n. something that is needed or wanted

synonym: prerequisite, provision, condition

(1) meet **requirement**, (2) school **requirement**
What is the entry **requirement** for this course?

hundredfold

adj. a hundred times as great or as much

(1) rise nearly **hundredfold**, (2) improve **hundredfold**
The development team reported two **hundredfold** increases in performance.

threefold

adj. three times as great or as many

synonym: three, triple, three times

(1) rise nearly **threefold**, (2) **threefold** increase
The price of the item was reduced **threefold** after the sale.

biomass

n. the total quantity of living matter in a given unit of environment, including plants, animals, and microorganisms

(1) **biomass** energy, (2) fuel **biomass**
The **biomass** in a forest can be measured by collecting and

weighing all living plants within a specific area.

hexagon

n. a six-sided polygon with six angles and six sides of equal length

synonym: hexahedron, six-sided figure, six-gon

(1) **hexagon** head bolt, (2) **hexagon** pattern

The honeycomb structure of a beehive is made up of **hexagons**.

Session 2: Spelling

- | | |
|--------------------------|--|
| 1. wax ef___y | <i>n.</i> a representation of a person or thing, especially in the form of sculpture |
| 2. talented ph_____st | <i>n.</i> a scientist who specializes in the field of physics |
| 3. re_____ze achievement | <i>v.</i> to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered |
| 4. de_____e a job offer | <i>v.</i> to become gradually smaller, fewer, worse, etc.; to refuse to accept |
| 5. ve_____al takeoff | <i>adj.</i> upright or perpendicular to a horizontal surface or line |
| 6. ad__t a bill | <i>v.</i> to choose to follow something; to legally take a child from another family and care for them as if they were one's own |
| 7. win pop_____ty | <i>n.</i> the state of being widely accepted, admired, or appreciated by many people |
| 8. wi_____ll energy | <i>n.</i> a machine that uses wind power to generate mechanical energy or electricity |
| 9. de_____e in quality | <i>v.</i> to become gradually smaller, fewer, worse, etc.; to refuse to accept |
| 10. in a di_____m | <i>n.</i> a simplified illustration of the appearance, structure, or workings of something |

ANSWERS: 1. effigy, 2. physicist, 3. recognize, 4. decline, 5. vertical, 6. adopt, 7. popularity, 8. windmill, 9. decline, 10. diagram

- | | |
|---|--|
| 11. principles of sus_____le development | <i>adj.</i> able to continue or be continued for a long time |
| 12. the di_____ty policy of the university | <i>n.</i> the quality or fact of many different types of things or people being included in something; a range of different things or people |
| 13. o_d behavior | <i>adj.</i> strange or unexpected; not divisible by two |
| 14. c__p a book shut | <i>v.</i> to hit your hands together and make a short and loud noise, mainly to show your approval or praise |
| 15. pr_____le of treatment | <i>n.</i> a fundamental law or truth that explains or controls how something happens or works |
| 16. pop_____ty in the market | <i>n.</i> the state of being widely accepted, admired, or appreciated by many people |
| 17. sl_____ly alkaline soils | <i>adv.</i> in a small degree or extent; a little |
| 18. fuel bi_____s | <i>n.</i> the total quantity of living matter in a given unit of environment, including plants, animals, and microorganisms |
| 19. beginning of the ind_____al revolution | <i>adj.</i> of or relating to or resulting from industry |
| 20. the fo_____nts of an earlier civilization | <i>n.</i> a mark of a foot, shoe, or animal's foot left on a surface |
| 21. a ge_____us reward | <i>adj.</i> willing to give and share something such as money, help, kindness, etc., especially more than is necessary or expected |

ANSWERS: 11. sustainable, 12. diversity, 13. odd, 14. clap, 15. principle, 16. popularity, 17. slightly, 18. biomass, 19. industrial, 20. footprint, 21. generous

22. em_____ss my project *v.* to cause someone to feel awkward, worried, or ashamed
23. mental ari_____ic *n.* the branch of mathematics that deals with numbers and numerical calculations, particularly the four basic operations of addition, subtraction, multiplication, and division
24. pe___l station *n.* a flammable liquid made from petroleum that is used as a fuel in internal combustion engines, commonly known as gasoline in North America
25. re_____le energy *adj.* capable of being renewed, extended, or replaced
26. su___e muscles *adj.* flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
27. key performance me_____cs *adj.* using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic
28. c__p field *n.* a plant that is cultivated in large amounts, particularly for food
29. und_____th the laughter *adv.* under or below something else
30. ti___r with the settings *v.* to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way
31. im___t a style sheet *v.* to bring goods or services into a country from another country; to transfer electronic data into a database or document;

ANSWERS: 22. embarrass, 23. arithmetic, 24. petrol, 25. renewable, 26. supple, 27. metric, 28. crop, 29. underneath, 30. tinker, 31. import

32. fi___e resources *adj.* having a limit or restriction of size, time, etc.
33. in an o_d way *adj.* strange or unexpected; not divisible by two
34. words of co____t *n.* a state of physical ease and freedom from pain or constraint
35. heal le__y gut *adj.* having a hole or crack that allows liquids or gases to pass through it
36. w__t per square meter *n.* a standard unit for measuring electrical power
37. as___e an important role *v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance
38. cal_____on of loss and gain *n.* the act or process of using numbers to judge an amount of something
39. county or_____ce *n.* a law or regulation enacted by a local government or governing authority; typically used about laws that concern public health, safety, or morals
40. a cold cl_____e *n.* the weather in a particular location averaged over some long period
41. ha___ed the incident *v.* to deal with a situation, problem, or strong emotion
42. traffic c__e *n.* a geometric shape that tapers to a point at one end and has a circular base at the other end
43. make a cal_____on *n.* the act or process of using numbers to judge an amount of something

ANSWERS: 32. finite, 33. odd, 34. comfort, 35. leaky, 36. watt, 37. assume, 38. calculation, 39. ordinance, 40. climate, 41. handle, 42. cone, 43. calculation

44. gr__p a chance *v.* to take hold of something or someone quickly and firmly
45. pr_____le in business *n.* a fundamental law or truth that explains or controls how something happens or works
46. he_____n head bolt *n.* a six-sided polygon with six angles and six sides of equal length
47. effects of cl_____e change *n.* the weather in a particular location averaged over some long period
48. a gear change le__r *n.* a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily
49. his research area of
con_____ion *n.* the ability to focus all your time and energy on one thing without thinking about anything else.
50. class obs_____on day *n.* the act or activity of carefully examining or monitoring something or someone
51. city or_____ce *n.* a law or regulation enacted by a local government or governing authority; typically used about laws that concern public health, safety, or morals
52. nodded po_____ly *adv.* in a courteous or respectful manner, showing good manners or consideration for others
53. ro_____y speaking *adv.* approximately but not precisely; with a violent manner
54. have a sub_____al meal *adj.* fairly large in size, value, or importance

ANSWERS: 44. grasp, 45. principle, 46. hexagon, 47. climate, 48. lever, 49. concentration, 50. observation, 51. ordinance, 52. politely, 53. roughly, 54. substantial

55. ac____te measurements *adj.* correct and exact in all details
56. chemical ad____on *n.* the act or process of adding something to something else; the process of adding numbers
57. pe____l engine *n.* a flammable liquid made from petroleum that is used as a fuel in internal combustion engines, commonly known as gasoline in North America
58. a material ef____y *n.* a representation of a person or thing, especially in the form of sculpture
59. em____ze a direct relationship *v.* to give or show particular importance to something
60. population de____y *n.* the quality of compactness of a substance
61. mot____on for a change *n.* the reason or enthusiasm for acting or behaving in a particular way
62. laws of ph____s *n.* the science of matter and energy and their interactions
63. a n__b mind *adj.* unable to feel physical sensation and movement; not showing human feeling or sensitivity
64. per____al devices *adj.* relating to, located on or near, or constituting an outer boundary or edge; not central or essential
65. gr__h theory *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other

ANSWERS: 55. accurate, 56. addition, 57. petrol, 58. effigy, 59. emphasize, 60. density, 61. motivation, 62. physics, 63. numb, 64. peripheral, 65. graph

66. vertical a__s *n.* a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance
67. smokeless f__l *n.* a substance that is typically burned to generate heat or energy
68. c__p herbicide *n.* a plant that is cultivated in large amounts, particularly for food
69. boys in the twelfth gr__e *n.* a particular level of quality, size, importance, etc.
70. em___y a spirit of charity *v.* to represent or exemplify something; to give tangible form to an abstract idea
71. a remote re____ve *adj.* considered and evaluated through comparison with something else
72. a te_____ry permit *adj.* not lasting or be used for a very long
73. he_____e land *n.* a unit of area equal to 10,000 square meters
74. pro_____on of civilization *n.* the act or process of changing to the next stage or phase or moving forward
75. pl_____ting sales *v.* to fall or drop suddenly and steeply; to decline rapidly or sharply
76. improve hun_____ld *adj.* a hundred times as great or as much
77. te_____ry housing *adj.* not lasting or be used for a very long
78. cou_____de scenery *n.* rural areas or regions outside of cities and urban centers often characterized by open fields, farmland, forests, and countryside scenery

ANSWERS: 66. axis, 67. fuel, 68. crop, 69. grade, 70. embody, 71. relative, 72. temporary, 73. hectare, 74. progression, 75. plummet, 76. hundredfold, 77. temporary, 78. countryside

79. an ad_____te of disarmament *n.* a person who supports or suggests an idea, development, or way of doing something
80. labor pop_____on *n.* the total number of people in a country, region, or location
81. co_____t my wallet *v.* to seek or get advice or information from a person, book, or other source having special knowledge on a particular subject
82. in_____e on other people's conversations *v.* to enter or to be present in a place or situation where one is not wanted or allowed; to interrupt or disturb someone or something
83. p__p blood throughout the body *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
84. re_____le subscriptions *adj.* capable of being renewed, extended, or replaced
85. pl_____t against other major currencies *v.* to fall or drop suddenly and steeply; to decline rapidly or sharply
86. cost of solar pa__ls *n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
87. theoretical ph_____st *n.* a scientist who specializes in the field of physics

ANSWERS: 79. advocate, 80. population, 81. consult, 82. intrude, 83. pump, 84. renewable, 85. plummet, 86. panel, 87. physicist

88. rise nearly th_____ld *adj.* three times as great or as many
89. a gr__h sample *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
90. po_____ly ask *adv.* in a courteous or respectful manner, showing good manners or consideration for others
91. cou_____de lifestyle *n.* rural areas or regions outside of cities and urban centers often characterized by open fields, farmland, forests, and countryside scenery
92. a sub_____al amount of capital *adj.* fairly large in size, value, or importance
93. 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
94. le__r for reform *n.* a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily
95. a bu__h of schoolgirls *n.* a grouping of several similar things which are growing or fastened together
96. deep pu___e *adj.* of a color intermediate between red and blue
97. rem_____le achievement *adj.* worthy of attention because unusual or special
98. im___t goods *v.* to bring goods or services into a country from another country; to transfer electronic data into a database or document;

ANSWERS: 88. threefold, 89. graph, 90. politely, 91. countryside, 92. substantial, 93. tradition, 94. lever, 95. bunch, 96. purple, 97. remarkable, 98. import

99. ice cream c__e *n.* a geometric shape that tapers to a point at one end and has a circular base at the other end
100. chop wood with an ax *n.* a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials
101. ill_____te a story *v.* to provide pictures, photographs, diagrams, etc. in a book or something for explanation
102. a c__l-fired ship *n.* a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat
103. ef_____nt operation *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
104. di_____e cloud *adj.* spread out widely; not concentrated in one place
105. the rem_____le breadth of knowledge *adj.* worthy of attention because unusual or special
106. develop software more eff_____ly *adv.* in a way that produces maximum output with minimum effort or expense
107. pe_____de enough people *v.* to convince or induce someone to do something by presenting a reason or argument; to sway or influence someone's decision or opinion
108. ha___e a precious object *v.* to deal with a situation, problem, or strong emotion

ANSWERS: 99. cone, 100. ax, 101. illustrate, 102. coal, 103. efficient, 104. diffuse, 105. remarkable, 106. efficiently, 107. persuade, 108. handle

109. bi_____l production *n.* a fuel produced from organic matter, such as crops or waste material, that can be used to replace or supplement traditional fossil fuels
110. ind_____al alcohol *adj.* of or relating to or resulting from industry
111. mi_____d the enemy *v.* to cause someone to believe something that is not true
112. con_____ion in English *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
113. co_____e electricity *v.* to spend something, especially fuel, energy, or time, in a large amount
114. school req_____nt *n.* something that is needed or wanted
115. understand his mot_____on *n.* the reason or enthusiasm for acting or behaving in a particular way
116. attempt to pe_____de *v.* to convince or induce someone to do something by presenting a reason or argument; to sway or influence someone's decision or opinion
117. ve_____al axis *adj.* upright or perpendicular to a horizontal surface or line
118. em_____ze her words *v.* to give or show particular importance to something
119. bi_____s energy *n.* the total quantity of living matter in a given unit of environment, including plants, animals, and microorganisms
120. pe_____al struggle *adj.* continuing for an extended period in the same way without stopping or being interrupted

ANSWERS: 109. biofuel, 110. industrial, 111. mislead, 112. conversation, 113. consume, 114. requirement, 115. motivation, 116. persuade, 117. vertical, 118. emphasize, 119. biomass, 120. perpetual

121. sus_____le alternative fuel *adj.* able to continue or be continued for a long time
122. me___c units *adj.* using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic
123. log_____ic function *adj.* of or relating to logarithms (= the exponent that shows how many times a number has to be multiplied by itself to produce a given number)
124. pro_____ity growth *n.* the state or quality of being productive; the rate at which a company or individual produces goods or services, often measured in terms of output per unit of input, such as labor, capital, or time
125. se_____ty analyst *n.* the state of being free from danger, risk, or harm; measures taken to protect against threats or attacks; a financial asset, such as a stock or bond that derives value exclusively from the ownership interest or claim to a particular underlying asset or obligation
126. field of vi___l arts *adj.* relating to seeing or sight
127. a subordinate ki_____m *n.* the country ruled by a king or queen
128. regularly co_____t with a doctor *v.* to seek or get advice or information from a person, book, or other source having special knowledge on a particular subject

ANSWERS: 121. sustainable, 122. metric, 123. logarithmic, 124. productivity, 125. security, 126. visual, 127. kingdom, 128. consult

129. public education ad_____tes *n.* a person who supports or suggests an idea, development, or way of doing something
130. establish his ki_____m *n.* the country ruled by a king or queen
131. ve__e of bankruptcy *n.* the point at which something is about to happen or where something begins; the edge or margin of something, particularly a physical boundary or border
132. the p__k current in the circuit *n.* the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain
133. ro_____y explain my idea *adv.* approximately but not precisely; with a violent manner
134. call fo__h demand *adv.* forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open
135. a friendly con_____ion *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
136. di___e money equally *v.* to separate or cause to separate into parts or groups
137. fo_____nts in the snow *n.* a mark of a foot, shoe, or animal's foot left on a surface
138. translate li_____ly *adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively

ANSWERS: 129. advocate, 130. kingdom, 131. verge, 132. peak, 133. roughly, 134. forth, 135. conversation, 136. divide, 137. footprint, 138. literally

139. tr_____rt facilities *n.* a system for moving people or products from one location to another using automobiles, roads, and so on
140. sub_____an countries *adj.* of or relating to or situated in the area south of the Sahara Desert
141. en_____p her in a bear hug *v.* to surround and cover completely; to encase
142. hor_____al stripes *adj.* parallel to the ground or in a baseline; being at the same level as all members of a group
143. o_t for a traditional wedding *v.* to make a choice from a range of possibilities
144. abs_____ly against *adv.* without restriction or limitation; completely or utterly
145. per_____al vision *adj.* relating to, located on or near, or constituting an outer boundary or edge; not central or essential
146. a comprehensive su___y *n.* an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions
147. bi_____l technology *n.* a fuel produced from organic matter, such as crops or waste material, that can be used to replace or supplement traditional fossil fuels
148. construction of new c___l plants *n.* a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat
149. a w__t of summons *n.* a written legal order or command

ANSWERS: 139. transport, 140. sub-Saharan, 141. envelop, 142. horizontal, 143. opt, 144. absolutely, 145. peripheral, 146. survey, 147. biofuel, 148. coal, 149. writ

150. pro_____on of disease *n.* the act or process of changing to the next stage or phase or moving forward
151. co_____e a large of alcohol *v.* to spend something, especially fuel, energy, or time, in a large amount
152. ex_____al factors *adj.* belonging to or situated outside of someone or something
153. acc_____te these needs *v.* to provide someone with a place to live or to be stored in; to make fit for or to change to suit a new purpose
154. de____t basin *n.* arid land with little or no vegetation often covered with sand or rocks
155. improved pro_____ity *n.* the state or quality of being productive; the rate at which a company or individual produces goods or services, often measured in terms of output per unit of input, such as labor, capital, or time
156. a re_____ic goal *adj.* having or showing a sensible and practical idea that is possible to achieve
157. th_____ld increase *adj.* three times as great or as many
158. 3D di_____m *n.* a simplified illustration of the appearance, structure, or workings of something
159. decimal ari_____ic *n.* the branch of mathematics that deals with numbers and numerical calculations, particularly the four basic operations of addition, subtraction, multiplication, and division
160. he_____n pattern *n.* a six-sided polygon with six angles and six sides of equal length

ANSWERS: 150. progression, 151. consume, 152. external, 153. accommodate, 154. desert, 155. productivity, 156. realistic, 157. threefold, 158. diagram, 159. arithmetic, 160. hexagon

161. issue a w__t *n.* a written legal order or command
162. di___e the cake into two pieces *v.* to separate or cause to separate into parts or groups
163. additional sound ins_____on *n.* the act or process of covering something to stop heat, sound, electricity, etc. from passing through; the materials used for this
164. 30-w__t light bulb *n.* a standard unit for measuring electrical power
165. increase sl_____ly *adv.* in a small degree or extent; a little
166. ex_____al commerce *adj.* belonging to or situated outside of someone or something
167. ti___r with the bill *v.* to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way
168. ten-ga___n hat *n.* a unit for measuring volume, in the US, it is equal to about 3.79 liters, and in the UK, Canada, and other countries, it is equal to about 4.55 liters
169. have no re_____ce *n.* the state or degree of being closely connected or appropriate to the matter at hand
170. a bu__h of trees *n.* a grouping of several similar things which are growing or fastened together
171. re_____ce category *n.* the state or degree of being closely connected or appropriate to the matter at hand
172. en_____p the whole world *v.* to surround and cover completely; to encase

ANSWERS: 161. writ, 162. divide, 163. insulation, 164. watt, 165. slightly, 166. external, 167. tinker, 168. gallon, 169. relevance, 170. bunch, 171. relevance, 172. envelop

173. students at all gr__e levels	<i>n.</i> a particular level of quality, size, importance, etc.
174. d_t blot method	<i>n.</i> a very small circular mark, especially one that is printed
175. fa____ty design	<i>n.</i> a building or place that provides a particular service or is used for a particular industry
176. hor_____al lines	<i>adj.</i> parallel to the ground or in a baseline; being at the same level as all members of a group
177. distance g_p	<i>n.</i> a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
178. the atmospheric tem_____re	<i>n.</i> the degree of hotness or coldness of a thing or place
179. the so__r system	<i>adj.</i> of, from, or relating to the sun
180. as__t a claim for unjust enrichment	<i>v.</i> to state something firmly and confidently, often in a way that is intended to convince others that it is true
181. play in the ba____rd	<i>n.</i> a whole space behind and belonging to a house
182. qu____fy blood flow	<i>v.</i> to express or measure something in numerical terms
183. a town acc_____le by rail	<i>adj.</i> capable of being reached, easily got, or seen
184. wet-b__b thermometer	<i>n.</i> a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball

ANSWERS: 173. grade, 174. dot, 175. facility, 176. horizontal, 177. gap, 178. temperature, 179. solar, 180. assert, 181. backyard, 182. quantify, 183. accessible, 184. bulb

185. ro___e about the origin *v.* to turn around a central point or axis; to move in a circular path around something
186. co_____t level *n.* a state of physical ease and freedom from pain or constraint
187. oasis in the de___t *n.* arid land with little or no vegetation often covered with sand or rocks
188. eff_____ly combined *adv.* in a way that produces maximum output with minimum effort or expense
189. in_____e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
190. a su_____y of the conclusions *n.* a brief statement that provides the critical aspects of something without going into depth
191. meet req_____nt *n.* something that is needed or wanted
192. wi_____ll blades *n.* a machine that uses wind power to generate mechanical energy or electricity
193. 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
194. gre_____ing campaign *n.* the practice of making deceptive or exaggerated claims about the environmental benefits of a product or service to appeal to eco-conscious consumers
195. su___e leather *adj.* flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas

ANSWERS: 185. rotate, 186. comfort, 187. desert, 188. efficiently, 189. involve, 190. summary, 191. requirement, 192. windmill, 193. tradition, 194. greenwashing, 195. supple

196. qu____fy the results *v.* to express or measure something in numerical terms
197. bu____g desire *adj.* intense or scorching heat
198. biomass f__l *n.* a substance that is typically burned to generate heat or energy
199. bring fo__h a beautiful vase *adv.* forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open
200. vi____l navigation *adj.* relating to seeing or sight
201. mi____d him into trusting her *v.* to cause someone to believe something that is not true
202. average fuel con____on *n.* the amount used or eaten; the act of using up a resource such as energy, food, or materials
203. as____e a lousy attitude to his boss *v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance
204. cr____y service *adj.* of poor quality; not satisfactory
205. abs____ly obsessed with the girl *adv.* without restriction or limitation; completely or utterly
206. sub____an Africa *adj.* of or relating to or situated in the area south of the Sahara Desert
207. el____fy a manufacturing process *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

ANSWERS: 196. quantify, 197. burning, 198. fuel, 199. forth, 200. visual, 201. mislead, 202. consumption, 203. assume, 204. crappy, 205. absolutely, 206. sub-Saharan, 207. electrify

208. a so__r eclipse *adj.* of, from, or relating to the sun
209. ad_____se the campaign *v.* to draw attention to something such as a product, service, or event in public to encourage people to buy, use, or attend it
210. recent su___y *n.* an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions
211. ge_____te more electricity *v.* to produce or create something; to make offspring by reproduction
212. fl__f ball *n.* soft, light particles or fibers that are often shed from fabrics or stuffing materials; excessively or trivially sentimental language or ideas that lack substance or depth; (verb) to make something soft, light, or loose by shaking or stirring it up; to make a mistake or blunder, especially while performing or speaking in public
213. fi___e decimal *adj.* having a limit or restriction of size, time, etc.
214. pla_____on house *n.* a large farm or estate, typically in a tropical or subtropical country, used for growing cash crops
215. a rubber pla_____on *n.* a large farm or estate, typically in a tropical or subtropical country, used for growing cash crops
216. ac_____ny the book *v.* to go somewhere or travel with someone or something

ANSWERS: 208. solar, 209. advertise, 210. survey, 211. generate, 212. fluff, 213. finite, 214. plantation, 215. plantation, 216. accompany

217. use of nu____r power	<i>adj.</i> of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
218. a political rev_____on	<i>n.</i> a large-scale attempt to overthrow the government of a country, often using violence or war;
219. access to public tr_____rt	<i>n.</i> a system for moving people or products from one location to another using automobiles, roads, and so on
220. in_____e on his personal space	<i>v.</i> to enter or to be present in a place or situation where one is not wanted or allowed; to interrupt or disturb someone or something
221. ba_____rd barbecue	<i>n.</i> a whole space behind and belonging to a house
222. lingual di_____ty	<i>n.</i> the quality or fact of many different types of things or people being included in something; a range of different things or people
223. em_____ss political enemy	<i>v.</i> to cause someone to feel awkward, worried, or ashamed
224. en_____us potential	<i>adj.</i> extremely large or great
225. obs_____on instrument	<i>n.</i> the act or activity of carefully examining or monitoring something or someone
226. national se_____ty	<i>n.</i> the state of being free from danger, risk, or harm; measures taken to protect against threats or attacks; a financial asset, such as a stock or bond that derives value exclusively from the ownership interest or claim to a particular underlying asset or obligation

ANSWERS: 217. nuclear, 218. revolution, 219. transport, 220. intrude, 221. backyard, 222. diversity, 223. embarrass, 224. enormous, 225. observation, 226. security

227. pe_____al motion machine *adj.* continuing for an extended period in the same way without stopping or being interrupted
228. higher pixel de_____y *n.* the quality of compactness of a substance
229. pa__l discussion *n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
230. the_____at settings *n.* a device that automatically regulates temperature by controlling the heating or cooling system based on the temperature in a room or building
231. re_____ve factors *adj.* considered and evaluated through comparison with something else
232. at p__k hour *n.* the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain
233. energy-ef_____nt appliances *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
234. ad_____se on social media *v.* to draw attention to something such as a product, service, or event in public to encourage people to buy, use, or attend it

ANSWERS: 227. perpetual, 228. density, 229. panel, 230. thermostat, 231. relative, 232. peak, 233. efficient, 234. advertise

235. beginning of the industrial rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
236. em____y my goal *v.* to represent or exemplify something; to give tangible form to an abstract idea
237. p__p a secret out of success *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
238. en_____us amount *adj.* extremely large or great
239. bite his tongue li_____ly *adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively
240. nuclear ph_____s *n.* the science of matter and energy and their interactions
241. tr_____c jam *n.* the movement of vehicles, people, or goods along a route or through a transport system; the amount of such movement in a particular place or at a particular time
242. fall under foreign dom_____on *n.* the act of having control or power over someone or something
243. the con_____on of food *n.* the amount used or eaten; the act of using up a resource such as energy, food, or materials
244. extreme tem_____res *n.* the degree of hotness or coldness of a thing or place
245. the agricultural yield per ca____a *n.* a Latin word meaning "head," used to express the amount for each person; any head or headlike expansion on a structure, as on a bone

ANSWERS: 235. revolution, 236. embody, 237. pump, 238. enormous, 239. literally, 240. physics, 241. traffic, 242. domination, 243. consumption, 244. temperature, 245. capita

246. gr__p his hand *v.* to take hold of something or someone quickly and firmly
247. ad__t a child *v.* to choose to follow something; to legally take a child from another family and care for them as if they were one's own
248. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
249. pho_____ph memories *n.* a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film
250. a su_____y execution *n.* a brief statement that provides the critical aspects of something without going into depth
251. ill_____te a key point *v.* to provide pictures, photographs, diagrams, etc. in a book or something for explanation
252. connecting the d_ts *n.* a very small circular mark, especially one that is printed
253. fairly ty_____l symptoms *adj.* having the usual characteristics or traits of a specific group of things
254. per ca___a sales *n.* a Latin word meaning "head," used to express the amount for each person; any head or headlike expansion on a structure, as on a bone
255. le__y bucket *adj.* having a hole or crack that allows liquids or gases to pass through it
256. fl__f formation *n.* soft, light particles or fibers that are often shed from fabrics or stuffing materials; excessively or trivially sentimental language or ideas that lack substance or depth; (verb) to make something soft, light, or loose by shaking or stirring it up; to make a mistake or blunder, especially while performing or speaking in public

ANSWERS: 246. grasp, 247. adopt, 248. experiment, 249. photograph, 250. summary, 251. illustrate, 252. dot, 253. typical, 254. capita, 255. leaky, 256. fluff

257. n__b with cold *adj.* unable to feel physical sensation and movement; not showing human feeling or sensitivity
258. 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
259. pop_____on change *n.* the total number of people in a country, region, or location
260. acc_____le to pity *adj.* capable of being reached, easily got, or seen
261. a fr_____onal share of the vote *n.* a small part or item forming a piece of a whole; the quotient of two rational numbers
262. bu_____g passion *adj.* intense or scorching heat
263. cr___y Spanish *adj.* of poor quality; not satisfactory
264. on the ve__e of tears *n.* the point at which something is about to happen or where something begins; the edge or margin of something, particularly a physical boundary or border
265. rise nearly hun_____ld *adj.* a hundred times as great or as much
266. a lily b__b *n.* a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball
267. a ge_____us and thoughtful person *adj.* willing to give and share something such as money, help, kindness, etc., especially more than is necessary or expected

ANSWERS: 257. numb, 258. carbon, 259. population, 260. accessible, 261. fraction, 262. burning, 263. crappy, 264. verge, 265. hundredfold, 266. bulb, 267. generous

268. ge_____te \$100 a month *v.* to produce or create something; to make offspring by reproduction
269. a gas me__r *n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse
270. con_____ion of armaments *n.* the ability to focus all your time and energy on one thing without thinking about anything else.
271. cr_____le source *adj.* capable of being trusted or believed
272. poetic me__r *n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse
273. 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
274. ty_____l leader *adj.* having the usual characteristics or traits of a specific group of things
275. und_____th the surface of the water *adv.* under or below something else
276. a coordinate a__s *n.* a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance
277. dom_____on power *n.* the act of having control or power over someone or something

ANSWERS: 268. generate, 269. meter, 270. concentration, 271. credible, 272. meter, 273. recognize, 274. typical, 275. underneath, 276. axis, 277. domination

278. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
279. heavy tr_____c *n.* the movement of vehicles, people, or goods along a route or through a transport system; the amount of such movement in a particular place or at a particular time
280. acc_____te a person with money *v.* to provide someone with a place to live or to be stored in; to make fit for or to change to suit a new purpose
281. o_t out of society *v.* to make a choice from a range of possibilities
282. housing per he_____e *n.* a unit of area equal to 10,000 square meters
283. ac_____ny a chicken dish *v.* to go somewhere or travel with someone or something
284. a numerator in a fr_____on *n.* a small part or item forming a piece of a whole; the quotient of two rational numbers
285. ant_____te a black future *v.* to expect or predict that something will happen; to tell in advance
286. ce_____te Christmas *v.* to acknowledge a memorable or good day or event with a social gathering or enjoyable activity
287. ce_____te his election *v.* to acknowledge a memorable or good day or event with a social gathering or enjoyable activity
288. a cell phone with an internet
fa_____ty *n.* a building or place that provides a particular service or is used for a particular industry

ANSWERS: 278. involve, 279. traffic, 280. accommodate, 281. opt, 282. hectare, 283. accompany, 284. fraction, 285. anticipate, 286. celebrate, 287. celebrate, 288. facility

289. l__p to a conclusion *v.* to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward
290. gre_____ing accusations *n.* the practice of making deceptive or exaggerated claims about the environmental benefits of a product or service to appeal to eco-conscious consumers
291. a cr_____le story *adj.* capable of being trusted or believed
292. ant_____te your kind cooperation *v.* to expect or predict that something will happen; to tell in advance
293. a fo___l leaf *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
294. ins_____on board *n.* the act or process of covering something to stop heat, sound, electricity, etc. from passing through; the materials used for this
295. ad_____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
296. 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
297. 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: 289. leap, 290. greenwashing, 291. credible, 292. anticipate, 293. fossil, 294. insulation, 295. addition, 296. carbon, 297. fossil

298. pho_____ph album *n.* a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film
299. 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
300. 5-ga___n square can *n.* a unit for measuring volume, in the US, it is equal to about 3.79 liters, and in the UK, Canada, and other countries, it is equal to about 4.55 liters
301. ro___e crops *v.* to turn around a central point or axis; to move in a circular path around something
302. the g_p between ideal and reality *n.* a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
303. an ax in the toolbox *n.* a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials
304. nu_____r fusion *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
305. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
306. a log_____ic table *adj.* of or relating to logarithms (= the exponent that shows how many times a number has to be multiplied by itself to produce a given number)

ANSWERS: 298. photograph, 299. electrify, 300. gallon, 301. rotate, 302. gap, 303. ax, 304. nuclear, 305. experiment, 306. logarithmic

307. smart the_____at *n.* a device that automatically regulates temperature by controlling the heating or cooling system based on the temperature in a room or building
308. c__p my hands *v.* to hit your hands together and make a short and loud noise, mainly to show your approval or praise
309. as___t a free society *v.* to state something firmly and confidently, often in a way that is intended to convince others that it is true
310. di_____e bleeding *adj.* spread out widely; not concentrated in one place
311. pu___e sweet potatoes *adj.* of a color intermediate between red and blue
312. l__p of faith *v.* to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward
313. provide ac_____te information *adj.* correct and exact in all details

ANSWERS: 307. thermostat, 308. clap, 309. assert, 310. diffuse, 311. purple, 312. leap, 313. accurate

Session 3: Fill in the Blanks

1. Several hectares of land are needed to generate more than 1-mega_____ solar power.
n. a standard unit for measuring electrical power

2. The countryside was dotted with picturesque _____.
n. a machine that uses wind power to generate mechanical energy or electricity

3. 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

4. His grandfather was an ____ man.
adj. strange or unexpected; not divisible by two

5. This artwork is _____ of her work.
adj. having the usual characteristics or traits of a specific group of things

6. He _____ the 10th anniversary of his tenure.
v. to acknowledge a memorable or good day or event with a social gathering or enjoyable activity

7. The Earth _____ on its axis once every 24 hours.
v. to turn around a central point or axis; to move in a circular path around something

8. A _____ is at the end of the book.
n. a brief statement that provides the critical aspects of something without going into depth

ANSWERS: 1. watt, 2. windmills, 3. electrify, 4. odd, 5. typical, 6. celebrated, 7. rotates, 8. summary

9. Our troops pulled back to _____ the enemy.
v. to cause someone to believe something that is not true
10. We choose transportation that has a smaller carbon _____.
n. a mark of a foot, shoe, or animal's foot left on a surface
11. I pushed _____ with my new project, even though it would take much hard work.
adv. forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open
12. He managed to get _____ jobs during the recession.
adj. not lasting or be used for a very long
13. 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
14. 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
15. I am _____ opposed to his idea because of morality.
adv. without restriction or limitation; completely or utterly
16. The _____ of the band has skyrocketed since their first album was released.
n. the state of being widely accepted, admired, or appreciated by many people

ANSWERS: 9. mislead, 10. footprint, 11. forth, 12. temporary, 13. transportation, 14. tradition, 15. absolutely, 16. popularity

17. She _____ that she was innocent, despite the evidence against her.
- v.* to state something firmly and confidently, often in a way that is intended to convince others that it is true
18. This company has an entire recycling _____ including major reprocessing plants.
- n.* a building or place that provides a particular service or is used for a particular industry
19. Can you _____ 123321 by eleven?
- v.* to separate or cause to separate into parts or groups
20. Efficiency isn't an essential _____ here; fairness is.
- n.* a fundamental law or truth that explains or controls how something happens or works
21. _____ cells in the eye's retina are responsible for color vision and visual acuity.
- n.* a geometric shape that tapers to a point at one end and has a circular base at the other end
22. My left arm became _____.
- adj.* unable to feel physical sensation and movement; not showing human feeling or sensitivity
23. The building's _____ system includes cameras, alarms, and security guards.
- n.* the state of being free from danger, risk, or harm; measures taken to protect against threats or attacks; a financial asset, such as a stock or bond that derives value exclusively from the ownership interest or claim to a particular underlying asset or obligation

ANSWERS: 17. asserted, 18. facility, 19. divide, 20. principle, 21. Cone-shaped, 22. numb, 23. security

24. The town council passed an _____ banning the use of plastic bags.
n. a law or regulation enacted by a local government or governing authority; typically used about laws that concern public health, safety, or morals
25. His _____ showed highly positive results.
n. the scientific test conducted to observe what happens and gain new knowledge
26. The company's financial records _____ how successful it has been.
v. to provide pictures, photographs, diagrams, etc. in a book or something for explanation
27. She _____ declined the invitation to the party, saying she had other plans.
adv. in a courteous or respectful manner, showing good manners or consideration for others
28. Cities around the world set records for highest _____ this summer.
n. the degree of hotness or coldness of a thing or place
29. Always _____ a lawyer before launching a business.
v. to seek or get advice or information from a person, book, or other source having special knowledge on a particular subject
30. _____ panels have greatly improved not only in performance but also in durability.
adj. of, from, or relating to the sun
31. The _____ of the Roman Empire over the Mediterranean region lasted for centuries.
n. the act of having control or power over someone or something

ANSWERS: 24. ordinance, 25. experiments, 26. illustrate, 27. politely, 28. temperatures, 29. consult, 30. Solar, 31. domination

32. She increased her _____ by planning out her tasks for the day.
n. the state or quality of being productive; the rate at which a company or individual produces goods or services, often measured in terms of output per unit of input, such as labor, capital, or time
33. The company _____ raw materials from other countries to manufacture its products.
v. to bring goods or services into a country from another country; to transfer electronic data into a database or document;
34. He studied the _____ of radiation.
n. the science of matter and energy and their interactions
35. The production of _____ fuels requires massive volumes of fresh water.
adj. capable of being renewed, extended, or replaced
36. As people age, their digestive capacity also gradually _____.
v. to become gradually smaller, fewer, worse, etc.; to refuse to accept
37. We decided to take a detour to avoid the construction _____ on the main road.
n. the movement of vehicles, people, or goods along a route or through a transport system; the amount of such movement in a particular place or at a particular time
38. The government should do more to support environmentally _____ agriculture.
adj. able to continue or be continued for a long time
39. He spent the afternoon _____ with his car engine.
v. to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way

ANSWERS: 32. productivity, 33. imports, 34. physics, 35. renewable, 36. declines, 37. traffic, 38. sustainable, 39. tinkering

40. He spent only a _____ of his earnings.

n. a small part or item forming a piece of a whole; the quotient of two rational numbers

41. The city's _____ areas should be given more attention regarding infrastructure and resources.

adj. relating to, located on or near, or constituting an outer boundary or edge; not central or essential

42. The company employs a _____ inventory system.

adj. continuing for an extended period in the same way without stopping or being interrupted

43. He tried to _____ the amount of product that was needed to complete the job.

v. to express or measure something in numerical terms

44. A significant amount of _____ is required to be a teacher.

n. the reason or enthusiasm for acting or behaving in a particular way

45. The national assembly has _____ the budget.

v. to choose to follow something; to legally take a child from another family and care for them as if they were one's own

46. Use italics or capitals to _____ a word in a piece of writing.

v. to give or show particular importance to something

47. We _____ heavy snowfall tomorrow.

v. to expect or predict that something will happen; to tell in advance

ANSWERS: 40. fraction, 41. peripheral, 42. perpetual, 43. quantify, 44. motivation, 45. adopted, 46. emphasize, 47. anticipate

48. The ladder leaned against the _____ surface of the building.

adj. upright or perpendicular to a horizontal surface or line

49. In the _____ system, measurements are made in meters and liters.

adj. using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic

50. The wallpaper had a pattern of pink _____ on a white surface.

n. a very small circular mark, especially one that is printed

51. The penny fell _____ the piano.

adv. under or below something else

52. Shakespeare's output of poetry was _____.

adj. extremely large or great

53. The farm spans over 100 _____ of land.

n. a unit of area equal to 10,000 square meters

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

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

55. The digital _____ has a programmable feature, and it can be controlled through your smartphone.

n. a device that automatically regulates temperature by controlling the heating or cooling system based on the temperature in a room or building

56. 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

ANSWERS: 48. vertical, 49. metric, 50. dots, 51. underneath, 52. enormous, 53. hectares, 54. generate, 55. thermostat, 56. progression

57. That story was so _____ and it was scary.

adj. having or showing a sensible and practical idea that is possible to achieve

58. The price of the item was reduced _____ after the sale.

adj. three times as great or as many

59. _____ of abolishing the death penalty often argue that the alternative heaviest sentence should be life in prison.

n. a person who supports or suggests an idea, development, or way of doing something

60. One bad apple spoils the whole _____.

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

61. The stock prices have _____ in the last hour, causing concern for investors.

v. to fall or drop suddenly and steeply; to decline rapidly or sharply

62. By remaining neutral, this _____ continued to exist.

n. the country ruled by a king or queen

63. The abacus is an ancient counting device that was used for _____ calculations.

n. the branch of mathematics that deals with numbers and numerical calculations, particularly the four basic operations of addition, subtraction, multiplication, and division

64. This teacher is _____ in his grading.

adj. willing to give and share something such as money, help, kindness, etc., especially more than is necessary or expected

ANSWERS: 57. realistic, 58. threefold, 59. Advocates, 60. bunch, 61. plummeted, 62. kingdom, 63. arithmetic, 64. generous

65. The ____ scarcity most severely impacted the manufacturing sector
n. a substance that is typically burned to generate heat or energy
66. The pandemic was a _____ business opportunity for certain companies.
adj. fairly large in size, value, or importance
67. We _____ along with the singer's song.
v. to hit your hands together and make a short and loud noise, mainly to show your approval or praise
68. Your _____ reflects your thoughts.
n. an informal talk between two or more people to exchange their views, ideas, information, etc.
69. The following example _____ that the capacity of each battery is the same.
v. to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance
70. The election was a _____ success for the Whigs.
adj. worthy of attention because unusual or special
71. The athlete was able to ____ over the hurdle with ease.
v. to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward
72. In the hospital, she will remain under constant _____.
n. the act or activity of carefully examining or monitoring something or someone
73. In just four years, the _____ has doubled.
n. the total number of people in a country, region, or location

ANSWERS: 65. fuel, 66. substantial, 67. clapped, 68. conversation, 69. assumes, 70. remarkable, 71. leap, 72. observation, 73. population

74. Human beings have a _____ lifespan, so we yearn for the idea of immortality.
adj. having a limit or restriction of size, time, etc.
75. The fog _____ the city, making it difficult to see.
v. to surround and cover completely; to encase
76. Many companies engage in _____ to appeal to environmentally conscious consumers without actually making significant changes to their products or practices.
n. the practice of making deceptive or exaggerated claims about the environmental benefits of a product or service to appeal to eco-conscious consumers
77. She tried to _____ her brother to join her on the trip, but he was too busy with work.
v. to convince or induce someone to do something by presenting a reason or argument; to sway or influence someone's decision or opinion
78. The error in the _____ was attributable to rounding.
n. the act or process of using numbers to judge an amount of something
79. We combust _____ and other fossil fuels to generate electricity.
n. a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat
80. 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
81. Many countries have now agreed to a treaty banning the use of _____ weapons.
adj. of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy

ANSWERS: 74. finite, 75. enveloped, 76. greenwashing, 77. persuade, 78. calculation, 79. coal, 80. fossil, 81. nuclear

82. He stood on the _____ of a major discovery.
- n.* the point at which something is about to happen or where something begins; the edge or margin of something, particularly a physical boundary or border
83. The _____ in a forest can be measured by collecting and weighing all living plants within a specific area.
- n.* the total quantity of living matter in a given unit of environment, including plants, animals, and microorganisms
84. I decided to ____ for premature retirement.
- v.* to make a choice from a range of possibilities
85. The _____ on the wall showed that the room was three meters long.
- n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse
86. The small village in the _____ was perfect for a quiet getaway.
- n.* rural areas or regions outside of cities and urban centers often characterized by open fields, farmland, forests, and countryside scenery
87. He is drawing a _____ illustrating how the equipment operates.
- n.* a simplified illustration of the appearance, structure, or workings of something
88. They spent a lot of time trying to _____ the current situation.
- v.* to take hold of something or someone quickly and firmly
89. The light _____ has burned out.
- n.* a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball

ANSWERS: 82. verge, 83. biomass, 84. opt, 85. meter, 86. countryside, 87. diagram, 88. grasp, 89. bulb

90. This bar _____ shows sales over the past five years.

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

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

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

92. The loud music from the party next door _____ into my peaceful evening at home.

v. to enter or to be present in a place or situation where one is not wanted or allowed; to interrupt or disturb someone or something

93. The food at the restaurant was _____ and overpriced.

adj. of poor quality; not satisfactory

94. 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

95. He moved his body _____ to the left.

adv. in a small degree or extent; a little

96. 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

97. The development team reported two _____ increases in performance.

adj. a hundred times as great or as much

ANSWERS: 90. graph, 91. efficiently, 92. intruded, 93. crappy, 94. supple, 95. slightly, 96. recognize, 97. hundredfold

98. A smaller car will _____ less fuel.

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

99. He is an _____ and genial man.

adj. capable of being reached, easily got, or seen

100. Many people are working together to close the gender ____.

n. a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.

101. The official transcript contains _____ academic records.

adj. correct and exact in all details

102. This large SUV _____ eight people.

v. to provide someone with a place to live or to be stored in; to make fit for or to change to suit a new purpose

103. He found _____ in the warm embrace of his loved ones.

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

104. The building makes a remarkable _____ impact.

adj. relating to seeing or sight

105. Einstein was an outstanding and famous _____ of the 20th century.

n. a scientist who specializes in the field of physics

106. The boat had a _____ hull and needed to be patched.

adj. having a hole or crack that allows liquids or gases to pass through it

ANSWERS: 98. consume, 99. accessible, 100. gap, 101. accurate, 102. accommodates, 103. comfort, 104. visual, 105. physicist, 106. leaky

107. The imperial _____ was standardized legally by the British Empire.
n. a unit for measuring volume, in the US, it is equal to about 3.79 liters, and in the UK, Canada, and other countries, it is equal to about 4.55 liters
108. Sow early for an early _____.
n. a plant that is cultivated in large amounts, particularly for food
109. Please let me know if you want to _____ me to my hometown.
v. to go somewhere or travel with someone or something
110. That _____ shows that people are accepting the tax increase to some extent.
n. an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions
111. This region is predominantly _____.
n. arid land with little or no vegetation often covered with sand or rocks
112. The new washing machine is much more _____ than the old one.
adj. performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
113. The company's new products _____ the values of innovation and sustainability.
v. to represent or exemplify something; to give tangible form to an abstract idea
114. The _____ scale of the graph made it easier to compare the different values.
adj. of or relating to logarithms (= the exponent that shows how many times a number has to be multiplied by itself to produce a given number)

ANSWERS: 107. gallon, 108. crop, 109. accompany, 110. survey, 111. desert, 112. efficient, 113. embody, 114. logarithmic

115. The airplane was powered by a _____ made from plant-based materials.
- n.* a fuel produced from organic matter, such as crops or waste material, that can be used to replace or supplement traditional fossil fuels
116. He looked for an opportunity to _____ that actor in public.
- v.* to cause someone to feel awkward, worried, or ashamed
117. A _____ of economic advisers from the United States visited the country to help rebuild its economy.
- n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
118. He was alert and could not _____ any critical information out of him.
- v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
119. The former _____ owner struggled to adjust to life without the enslaved people that once worked for him.
- n.* a large farm or estate, typically in a tropical or subtropical country, used for growing cash crops
120. _____ design has become more focused on human nature aspect than ever before.
- adj.* of or relating to or resulting from industry
121. He installed fiberglass _____ in the wall.
- n.* the act or process of covering something to stop heat, sound, electricity, etc. from passing through; the materials used for this

ANSWERS: 115. biofuel, 116. embarrass, 117. panel, 118. pump, 119. plantation, 120. Industrial, 121. insulation

122. He grows vegetables in his _____.

n. a whole space behind and belonging to a house

123. What is the entry _____ for this course?

n. something that is needed or wanted

124. This measurement aims to reduce traffic at _____ periods.

n. the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain

125. The fire spread rapidly, engulfing everything in its path in a _____ inferno.

adj. intense or scorching heat

126. This initiative will be a _____ for increasing company sales.

n. a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily

127. 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

128. Airplanes need _____ tails to improve stability.

adj. parallel to the ground or in a baseline; being at the same level as all members of a group

129. In our country, water _____ usually decreases during the winter.

n. the amount used or eaten; the act of using up a resource such as energy, food, or materials

ANSWERS: 122. backyard, 123. requirement, 124. peak, 125. burning, 126. lever, 127. involves, 128. horizontal, 129. consumption

130. He used an ___ to chop the firewood for the campfire.

n. a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials

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

adj. considered and evaluated through comparison with something else

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

adj. capable of being trusted or believed

133. GDP per _____ shrunk by almost 10 percent for the third consecutive year.

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

134. The plant has a stunning _____ blossom.

adj. of a color intermediate between red and blue

135. In _____ private corporations provide healthcare services.

n. the act or process of adding something to something else; the process of adding numbers

136. We want to _____ our company through your media.

v. to draw attention to something such as a product, service, or event in public to encourage people to buy, use, or attend it

137. The _____ of this information to the current situation needs to be investigated.

n. the state or degree of being closely connected or appropriate to the matter at hand

ANSWERS: 130. ax, 131. relatives, 132. credible, 133. capita, 134. purple, 135. addition, 136. advertise, 137. relevance

138. 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
139. I must fill my car with _____ before going on a long road trip.
n. a flammable liquid made from petroleum that is used as a fuel in internal combustion engines, commonly known as gasoline in North America
140. Five miles is _____ similar to eight kilometers.
adv. approximately but not precisely; with a violent manner
141. This exam requires excellent _____ to pass.
n. the ability to focus all your time and energy on one thing without thinking about anything else.
142. The king's _____ was carved into the throne to symbolize his authority.
n. a representation of a person or thing, especially in the form of sculpture
143. The teddy bear's fur was so soft and full of _____.
n. soft, light particles or fibers that are often shed from fabrics or stuffing materials; excessively or trivially sentimental language or ideas that lack substance or depth; (verb) to make something soft, light, or loose by shaking or stirring it up; to make a mistake or blunder, especially while performing or speaking in public
144. The coffee producers in _____ countries are at the sharp end of fluctuations in price.
adj. of or relating to or situated in the area south of the Sahara Desert
145. The _____ by the citizen resulted in a redistribution of wealth.
n. a large-scale attempt to overthrow the government of a country, often using violence or war;

ANSWERS: 138. carbon, 139. petrol, 140. roughly, 141. concentration, 142. effigy, 143. fluff, 144. sub-Saharan, 145. revolution

146. He was impressed by the range and _____ of the collection.

n. the quality or fact of many different types of things or people being included in something; a range of different things or people

147. He _____ jumped out of his chair when he heard the news.

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

148. _____ and weather have an impact on every part of our lifestyles.

n. the weather in a particular location averaged over some long period

149. The earth's _____ of rotation is tilted 66.5 degrees to the ecliptic plane.

n. a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance

150. The honeycomb structure of a beehive is made up of _____.

n. a six-sided polygon with six angles and six sides of equal length

151. He was served with a _____ of eviction, giving him the notice to vacate the property.

n. a written legal order or command

152. I found an old _____ of my grandparents from their wedding day.

n. a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film

153. We all should learn how to _____ stress.

v. to deal with a situation, problem, or strong emotion

ANSWERS: 146. diversity, 147. literally, 148. Climate, 149. axis, 150. hexagons, 151. writ, 152. photograph, 153. handle

154. Direct lighting is preferable to _____ lighting when reading.

adj. spread out widely; not concentrated in one place

155. When a company discloses information to the market, an _____ auditor verifies them.

adj. belonging to or situated outside of someone or something

156. Departments may set requirements for a higher _____ point average.

n. a particular level of quality, size, importance, etc.

157. Do you know the _____ of the population in Hong Kong?

n. the quality of compactness of a substance

ANSWERS: 154. diffuse, 155. external, 156. grade, 157. density