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Bas Sudmeijer: How carbon capture networks could help curb climate change | TED Talk

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

All Words

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Session 1: Word List

metropolitan

adj. of or relating to a large city or a city that is considered to be the cultural or economic center of a region or country
synonym : urban, city, municipal

(1) major **metropolitan** area, (2) **metropolitan** city

The city is a true **metropolitan**, with a diverse population and bustling streets.

sustainable

adj. able to continue or be continued for a long time
synonym : continuable, enduring, tolerable

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

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

dweller

n. a person or animal that lives in a particular place or region; an inhabitant of a specific location
synonym : resident, occupant, inhabitant

(1) city **dweller**, (2) rural **dweller**

The mountain **dweller** lived off the land and had a deep connection to nature.

pride

n. a feeling of deep pleasure or satisfaction derived from one's achievements

synonym: vanity, conceit, egotism

(1) **pride** of a company, (2) hide his **pride**

She took great **pride** in her work, always striving for perfection.

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.

achieve

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

synonym: accomplish, attain, reach

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

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

Don

n. a Spanish gentleman; a university lecturer, especially a senior member of a college at Oxford or Cambridge

(1) the **don** of the university, (2) **Don** Giovanni

He could never go against what **Don** Carlos said.

parliament

n. a legislative body, especially the one that represents the people of a country or state

synonym: congress, assembly, legislature

(1) disband **parliament**, (2) event of a hung **parliament**

He was a member of **parliament**.

steel

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

synonym: iron

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

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

granite

n. a tough, durable, and coarse-grained igneous rock often used in construction for buildings, monuments, and sculptures

synonym : stone, rock, boulder

(1) black **granite**, (2) solid **granite**

The countertop was polished **granite**, giving it a sleek and modern look.

large-scale

adj. involving many people or things and involving a lot of change or activity

synonym : big, massive, grand

(1) **large-scale** project, (2) **large-scale** agriculture

The company is planning to make a **large-scale** expansion of its factory.

ethanol

n. a colorless, flammable alcohol that is produced by the fermentation of sugars and is commonly used as a fuel, solvent, and in the manufacture of alcoholic beverages

synonym : alcohol, ethyl alcohol, grain alcohol

(1) **ethanol** plant, (2) **ethanol** production

The production of **ethanol** can have environmental benefits if produced from renewable sources.

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.

greenhouse

n. a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in

synonym : conservatory

(1) exotic plants in a **greenhouse**, (2) emissions of **greenhouse** gases

The **greenhouse** effect is a phenomenon that happens naturally.

emission

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

synonym: emanation, radiation, discharge

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

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

employ

v. to give somebody a job and pay them for it; to make use of

synonym: hire, engage, use

(1) **employ** job seekers, (2) **employ** a new method

When making arrests, police officers frequently **employ** excessive force.

maintain

v. to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true

synonym: preserve, uphold, sustain

(1) **maintain** order, (2) **maintain** good health

I need to **maintain** my car regularly to prevent any major mechanical issues.

critic

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

synonym: pundit, analyst, attacker

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

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

economy

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

synonym: finance, trade, business

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

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

function

n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

synonym : purpose, mapping, job

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

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

feat

n. a notable or impressive achievement, especially one that requires great skill or bravery

synonym : achievement, accomplishment, exploit

(1) intellectual **feat**, (2) **feat** accomplishment

It is an incredible **feat** to climb Mount Everest, the highest mountain in the world.

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.

process

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

synonym : procedure, method, system

(1) **process** improvement, (2) decision-making **process**
The **process** for applying for a visa can be lengthy and complicated.

fortunate

adj. having good luck or lucky
synonym: fortuitous, lucky, blessed

(1) **fortunate** situation, (2) less **fortunate** person
He was pretty **fortunate** to pass the exam.

pollution

n. the introduction of harmful substances or waste into the natural environment that causes adverse change
synonym: corrosion, deterioration, corruption

(1) environmental **pollution**, (2) high levels of air **pollution**
The **pollution** is endangering the local plants and animals.

proximity

n. the state or quality of being near or close to something or someone in distance or time
synonym: nearness, closeness, vicinity

(1) **proximity** sensor,, (2) geographical **proximity**
The **proximity** of the two cities makes it easy to travel between them.

trap

n. a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
synonym: catch, snare, pinfall

(1) set a **trap**, (2) **trap** an animal
The enemy fell right into the **trap**.

carbon

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

(1) **carbon** dioxide, (2) **carbon** emission
Trees absorb **carbon** dioxide and give off oxygen.

oxide

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

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

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

capture

v. to catch a person or an animal and confine them in an area which they cannot escape

synonym: catch, arrest, imprison

(1) **capture** a glimpse, (2) **capture** customers' hearts

I was able to **capture** the moment on film.

storage

n. the act or process of putting in and keeping something in a particular place for use in the future; an electronic memory device that can store information

synonym: storehouse, depository, warehousing

(1) a **storage** battery, (2) **storage** at low temperature

We store customer data in cloud **storage**.

fossil

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

synonym: relic, remnant, antediluvian

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

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

fuel

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

synonym: energy, power, gas

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

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

emit

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

synonym: give off, radiate, expel

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

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

atmosphere

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

synonym: air, ambiance, circumstances

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

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

bury

v. to place a dead body in the ground, grave, or tomb

synonym: entomb, sink, forget

(1) **bury** in the earth, (2) **bury** emotion

There is plenty of space to **bury** everyone.

underground

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

synonym: subterranean, subsurface, confidential

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

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

extract

n. a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force

synonym: excerpt, quote, distillation

(1) a brief **extract** from the book, (2) botanical **extract**

Anesthetize the gum before **extracting** the teeth.

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.

operational

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

synonym: functional, active, working

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

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

equivalent

n. having the same value, quality, meaning, purpose, etc.

synonym: equal, counterpart, match

(1) **equivalent** amounts, (2) **equivalent** in meaning

The European Central Bank is Europe's **equivalent** of the Federal Reserve.

predict

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

synonym: forecast, anticipate, foresee

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

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

gigaton

n. a unit of explosive energy equal to one billion tons of TNT (= a powerful, yellow explosive substance); one billion tons

(1) **gigaton-class** bomb, (2) half a **gigaton** of CO₂

The earthquake that hit the Pacific Ocean last night is said to have released about 30 **gigatons** of energy.

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.

degree

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

synonym: level, qualification, diploma

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

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

definitely

adv. without any question and beyond doubt; clearly

synonym: absolutely, certainly, indeed

(1) **definitely** become a problem, (2) say **definitely**

The paper is **definitely** worth reading thoroughly.

settle

v. to reach an agreement of disagreement

synonym: inhabit, occupy, decide

(1) **settle** a dispute, (2) **settle** down in the town

I don't want to **settle** for second best.

rely

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

synonym: depend, count, lean

(1) **rely** on convenience stores, (2) **rely** entirely on him

Babies heavily **rely** on others for food.

improve

v. to make or become better

synonym: enhance, ameliorate, enrich

(1) **improve** a process, (2) **improve** the test score

We want to **improve** ties between our two countries.

fundamental

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

synonym: basic, essential, entire

(1) **fundamental** education, (2) **fundamental** rights

Human behavior has **fundamental** characteristics.

well-thought-through

adj. thoroughly considered or planned out; methodically analyzed or evaluated

synonym: cogent, sound, reasoned

(1) **well-thought-through** decision, (2) a

well-thought-through solution

The company's **well-thought-through** marketing campaign

boosted sales.

rollout

n. the introduction or implementation of a new product, service, or system, particularly one that has been planned and developed over a period of time

synonym: launch, release, deployment

(1) **rollout** strategy, (2) software **rollout**

The company announced the **rollout** of its new product line next month.

consultant

n. a person who provides professional or expert advice

synonym: expert, advisor, specialist

(1) **consultant** firm, (2) chief **consultant**

We hired a management **consultant** to help us improve our business strategy.

analyst

n. someone whose job is to examine something to learn or understand more about it

synonym: reviewer, investigator, judge

(1) banking **analyst**, (2) senior research **analyst**

The **analyst** concluded that bankruptcy was inevitable.

advance

v. to go or move forward; to develop in a positive way

synonym: progress, boost, come along

(1) **advance** the technology, (2) **advance** a cooperative relationship

Scientific knowledge will **advance** significantly with the power of AI.

utilization

n. the act or process of using something effectively or productively; the extent to which something is used

synonym: use, application, implementation

(1) resource **utilization**, (2) technology **utilization**

The **utilization** of renewable energy sources is crucial for the future of our planet.

estimate

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

synonym: calculate, gauge, evaluate

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

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

forecast

n. a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance

synonym: prediction, outlook, (verb) guess

(1) a weather **forecast**, (2) **forecast** an epidemic

Their team specializes in demand **forecasts** for our products.

infrastructure

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

synonym: foundation, framework

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

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

essential

adj. indispensable; fundamental

synonym: critical, crucial, basic

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

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

hefty

adj. large, bulky, and heavy; impressively large, substantial, or powerful; large in amount, extent, or significance

synonym: weighty, substantial, sizeable

(1) **hefty** price, (2) **hefty** breakfast

The **hefty** box of books was too heavy to lift on my own.

dispose

v. to put things or people in a particular manner or position; to incline someone towards a specific activity or mood; throw or cast away

synonym: get rid of, arrange, set

(1) **dispose** battleships for a battle, (2) **dispose** of a used product

Generally speaking, the child is innately **disposed** to learn a language.

policymaker

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

synonym : lawmaker, legislator

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

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

smartphone

n. a mobile phone that functions as a computer and connects to the Internet

(1) **smartphone** app developer, (2) **smartphone** addict
Internet traffic volumes have increased significantly with the advent of **smartphones**.

deplete

v. to reduce something, especially supplies of energy, money, etc., by a large amount; to use up resources or materials

synonym : exhaust, consume, use up

(1) **deplete** customer confidence, (2) **deplete** glycogen stores

If we continue to **deplete** the Earth's natural resources, we will cause severe damage to the environment.

saline

adj. containing salt; of or relating to chemical salts

synonym : salty, briny, brackish

(1) a **saline** lake, (2) irrigation with **saline**

The drug is dissolved in a **saline** solution.

aquifer

n. an underground layer of rock, sand, or Earth that can take in and hold water

(1) **aquifer** soil, (2) subsurface **aquifer**

Some areas melt snow by harnessing heat from underground

aquifers.

optimal

adj. the best; most likely to be successful or advantageous
synonym : optimum, desirable, favorable

(1) achieve **optimal** health, (2) **optimal** for intellectual growth

Wild animals need to go forward with the **optimal** action to survive.

distance

n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

synonym : space, gap, span

(1) driving **distance**, (2) social **distance**

The marathon runner covered a long **distance** in a short amount of time.

sink

v. to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else

synonym : descend, drop, plummet

(1) **sink** a lot of capital, (2) **sink** a buzzer-beater

The abandoned ship slowly began to **sink** into the murky waters of the harbor.

yield

n. the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information

synonym : proceeds, harvest, output

(1) corn **yield**, (2) the **yield** on the bond

The company's stock gives a high **yield**.

database

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

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

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

cluster

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

synonym: group, aggregation, array

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

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

optimize

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

synonym: advance, amend, improve

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

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

mechanism

n. a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

synonym: means, method, system

(1) the **mechanism** for DNA replication, (2) defense

mechanism

He discovered unique **mechanisms** for photochemical reactions.

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.

government

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

synonym: administration, regime, state

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

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

collaboration

n. the act or situation of working together to create or produce something

synonym: affiliation, alliance, coalition

(1) **collaboration** between companies, (2) **collaboration** platform

The partnership program requires a mutual **collaboration** between both agencies.

mention

v. to speak or write about something or someone briefly

synonym: reference, allude, cite

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

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

assess

v. to judge or decide the nature or quality of someone or something

synonym: estimate, evaluate, consider

(1) **assess** a tax of 10 pounds, (2) **assess** the quality

Our company needs to **assess** the business impact of climate change.

secondly

adv. used to introduce the second point or item in a list or series of statements, considerations, etc.

synonym: in the second place, next, subsequently

(1) **secondly** connected, (2) **secondly**, it is important

Firstly, we will discuss the budget; **secondly**, we will go over the schedule.

flue

n. a pipe or tube used to remove smoke, gas, or hot air from a fire, heater, or oven

synonym: chimney, duct, vent

(1) **flue** boiler, (2) chimney **flue**

The smoke filled the room because the **flue** pipe had jammed.

exhaust

n. the system in a vehicle that removes waste gases from the engine; (verb) to make someone completely tired

synonym: emission, fumes, (verb) deplete

(1) **exhaust** pipe, (2) **exhaust** a topic

The factory's **exhaust** fumes polluted the air and affected the health of the nearby residents.

surrounding

adj. that is near or around, or closely encircling something

synonym: circumferent, encircling, neighboring

(1) **surrounding** areas, (2) a fence **surrounding** a castle

The **surrounding** mountains make the city difficult to be invaded.

suitable

adj. fit or appropriate; proper; adapted

synonym: appropriate, fitting, proper

(1) **suitable** amount, (2) date **suitable** to both groups

The dress was **suitable** for the formal occasion.

abundant

adj. present in great quantity

synonym: ample, plentiful, generative

(1) live an **abundant** life, (2) an **abundant** supply of water

The country has **abundant** oil and natural gas resources.

exceed

v. to surpass or go beyond a limit, expectation, or requirement; to be better or greater than anticipated or desired

synonym: surpass, outdo, excel

(1) **exceed** sales targets, (2) **exceed** the speed limit

The athlete's performance **exceeded** all expectations, breaking a world record.

criteria

n. (plural of criterion) standards or conditions by which something may be judged or decided

synonym: bars, benchmarks, standards

(1) **criteria** for action, (2) consistency **criteria**

He didn't meet all the **criteria**, but he was hired anyway.

combination

n. a collection of things that have been combined; an assemblage of separate parts or qualities

synonym : blend, hybrid, compounding

(1) genic **combinations**, (2) **combination** number

The **combination** to the safe was a secret.

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.

stream

n. a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.

synonym : flow, current, brook

(1) the **stream** of time, (2) an endless **stream** of cars

Jet **streams** are the common name for air currents that form high in the atmosphere.

associate

v. to mentally connect someone or something with someone or something else

synonym : tie in, link, consociate

(1) **associate** alcohol with gambling, (2) **associate** with people widely

The majority of consumers **associate** this brand with quality.

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.

represent

v. to speak, act, or be present on behalf of another person or group; to form or constitute

synonym : depict, express, describe

(1) **represent** by a diagram, (2) the characters that **represent** numbers

We elected him to **represent** us at the international conference.

megaton

n. a unit of energy equivalent to one million tons of TNT

(1) **megaton** explosion, (2) **megaton** weapon

The power of a **megaton** bomb is equivalent to one million tons of TNT.

crucial

adj. extremely vital or necessary

synonym: essential, pivotal, vital

(1) **crucial** information, (2) a **crucial** issue for women

The revitalization of technology companies is **crucial** to the country's growth.

dynamics

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

synonym: mechanics, kinetics, kinematics

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

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

sufficient

adj. adequate; enough for a particular purpose or requirement

synonym: acceptable, ample, satisfactory

(1) **sufficient** time, (2) self- **sufficient** economy

That candidate does not have **sufficient** means to win an election with certainty.

offshore

adj. situated at or happening in the sea, not far from the shore or land; (of winds) coming from the land

synonym: seaward, alongshore

(1) an **offshore** oil field, (2) an **offshore** fund

The company undertakes **offshore** development for software companies in many countries.

onshore

adj. located or happening on or near the shore or coastline; relating to activities or operations that take place on land as opposed to at sea

synonym : coastal, domestic, seaward

(1) **onshore** drilling, (2) **onshore** wind farm

The shipping company decided to switch to **onshore** storage to reduce costs.

reuse

v. to use something again or more than once

synonym : reprocess, recycle, rehash

(1) **reuse** the materials, (2) **reuse** existing knowledge

The supermarket encourages shoppers to **reuse** plastic bags.

repurpose

v. to use something again for a different purpose than it was originally intended

synonym : reutilize, recycle, reuse

(1) **repurpose** an old building, (2) **repurpose** a used car

The old barn was **repurposed** into a modern event space.

standalone

adj. (of computer hardware or software) able to operate the system without being connected to other hardware or software; (also stand-alone) capable of working independently

(1) **standalone** application, (2) **standalone** approach

We never prescribe medication as a **standalone** treatment.

refine

v. to make something more pure, polished, cultured, or effective; to improve, perfect, or enhance through a process of purification or development

synonym : purify, process, improve

(1) **refine** oil, (2) **refine** a language

The company is working to **refine** its production process to be more efficient.

chemical

adj. relating to or connected with chemistry;

synonym : chemic, synthetic

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

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

economics

n. the branch of social science that deals with the production, consumption, and transfer of goods and services

synonym : social science, finance, business

(1) welfare **economics**, (2) **economics** professor

His class will cover an introduction to agricultural **economics**.

kick-start

v. to start something by providing an initial burst of energy or enthusiasm

synonym : initiate, start, launch

(1) **kick-start** the project, (2) **kick-start** the economy

She needed to **kick-start** her weight loss journey.

uncommon

adj. not occurring or seen very often; rare

synonym : rare, scarce, unusual

(1) **uncommon** occurrence, (2) **uncommon** talents

It was **uncommon** for the store to have such a big sale.

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.

utility

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

synonym : usefulness, practicality, utility

(1) **utility** costs, (2) marginal **utility**

The **utility** of the device was immediately apparent to all who saw it.

develop

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

synonym: evolve, progress, advance

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

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

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.

chain

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

synonym: series, string, link

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

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

marginal

- adj.* of, relating to, or situated at the edge or outer limit; of secondary or minor importance; barely satisfactory or effective

synonym: fringy, peripheral, borderline

(1) **marginal** note, (2) **marginal** cost

The company's profits have only been **marginal** this year, but they're hoping for a better year.

reverse

- v. to change something's direction, order, position, decision, etc., to the opposite one; (adjective) directed or moving toward the rear

synonym: overturn, shift, switch

(1) **reverse** the trend, (2) **reverse** the order
The restaurant **reversed** a ban on smoking.

innovation

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

synonym: invention, initiation, creation

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

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

analyze

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

synonym: explore, examine, investigate

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

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

purity

n. the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature

synonym: sinlessness, innocence, cleanliness

(1) the degree of **purity**, (2) high **purity**

Higher **purity** requires additional equipment and energy.

geography

n. a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth

synonym: landscape, terrain, topography

(1) **geography** class, (2) economic **geography**

She did well on her **geography** exam.

barrier

n. a fence or other obstruction that makes it hard to move or get in; any condition that makes it difficult to make progress or to achieve an objective

synonym: border, barricade, fence

(1) cost **barrier**, (2) information **barrier**

The police placed a **barrier** across the street to halt traffic.

regulatory

adj. having the power to control or restrict something such as business or industry according to rules or principles

synonym : regulative, managerial

(1) **regulatory** cells, (2) compliance with **regulatory** requirements

In the past, Japanese banks were protected by **regulatory** control.

environment

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

synonym : atmosphere, surroundings, climate

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

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

ample

adj. enough or more than enough; having plenty of something

synonym : plentiful, rich, sufficient

(1) **ample** opportunities, (2) **ample** evidence

We have **ample** time to finish the project before the deadline.

pipeline

n. a very long large tube that is usually underground and is used for carrying liquid or gas for long distances

synonym : channel, line

(1) a data **pipeline**, (2) **pipeline** facilities

Rebels sabotaged the main **pipeline** supplying oil.

incentive

n. something, such as a punishment, reward, etc., that encourages a person to do something

synonym : encouragement, inducement, enticement

(1) financial **incentives**, (2) an **incentive** to work hard

They have no **incentive** to win the game.

tally

n. a record or count of a particular thing often used to keep track of scores, votes, or numbers

synonym : count, record, score

(1) keep a **tally**, (2) **tally** sheet

Let's keep a **tally** of the votes to see who won the election.

curve

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

synonym : bend, arc, turn

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

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

frame

n. a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window

synonym : body, skeleton, scaffolding

(1) a picture **frame**, (2) the **frame** of the policy

The detective looked for fingerprints on the window **frame**.

massive

adj. enormous amount; very heavy and solid

synonym : enormous, giant, immense

(1) **massive** amounts, (2) **massive** stars

The recent economic downturn has resulted in **massive** layoffs.

undertaking

n. a task, business, assignment, or project, especially one that is essential or challenging

synonym : task, effort, enterprise

(1) great **undertaking**, (2) public welfare **undertaking**

Project planning for software development is never an easy **undertaking**.

buildup

n. the accumulation or increase of something over time

synonym : accumulation, increase, growth

(1) lactic acid **buildup**, (2) huge military **buildup**

The **buildup** of stress over time can lead to health problems.

nation

n. a large organized community of people living in a particular country or region and having a particular culture

synonym: country, state, sovereign entity

(1) **nation-state**, (2) a seafaring **nation**

The **nation** of Japan is known for its unique culture and advanced technology.

debt

n. something, especially money, goods, or services owed by one person to another; the state of owing something

synonym: liability, obligation, deficit

(1) **debt** ceiling, (2) corporate **debt**

He became in **debt** after losing his job.

transition

n. the process or period of changing from one state or circumstance to another

synonym: change, growth, shift

(1) **transition** phase, (2) ensure a smooth **transition**

The nation's healthcare system is in **transition** at the moment.

preserve

v. to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed

synonym: conserve, care for, maintain

(1) **preserve** my strength, (2) **preserve** a country's heritage

They worked hard to **preserve** the nature of their native lands.

manufacture

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

synonym: create, fabricate, assemble

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

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

communal

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

synonym: collaborative, combined, collective

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

Communal elections were held in several European countries.

thrive

v. to grow vigorously; to make steady progress

synonym: bloom, flourish, prosper

(1) **thrive** in a society, (2) **thrive** on pressure

Without investment, a business cannot **thrive**.

economical

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

synonym: frugal, thrifty, parsimonious

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

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

Session 2: Spelling

- | | |
|-------------------------------|---|
| 1. corporate d__t | <i>n.</i> something, especially money, goods, or services owed by one person to another; the state of owing something |
| 2. im_____e the test score | <i>v.</i> to make or become better |
| 3. gov_____nt funding | <i>n.</i> the group of people with authority to control a country or state |
| 4. D_n Giovanni | <i>n.</i> a Spanish gentleman; a university lecturer, especially a senior member of a college at Oxford or Cambridge |
| 5. biomass f__l | <i>n.</i> a substance that is typically burned to generate heat or energy |
| 6. man_____re an enzyme | <i>v.</i> to make goods in large numbers, usually in a factory using machines |
| 7. th___e on pressure | <i>v.</i> to grow vigorously; to make steady progress |
| 8. he__y breakfast | <i>adj.</i> large, bulky, and heavy; impressively large, substantial, or powerful; large in amount, extent, or significance |
| 9. effects of cl_____e change | <i>n.</i> the weather in a particular location averaged over some long period |
| 10. reg_____ry cells | <i>adj.</i> having the power to control or restrict something such as business or industry according to rules or principles |
| 11. con_____ion of armaments | <i>n.</i> the ability to focus all your time and energy on one thing without thinking about anything else. |

ANSWERS: 1. debt, 2. improve, 3. government, 4. Don, 5. fuel, 6. manufacture, 7. thrive, 8. hefty, 9. climate, 10. regulatory, 11. concentration

12. de___e centigrade *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
13. st_____e at low temperature *n.* the act or process of putting in and keeping something in a particular place for use in the future; an electronic memory device that can store information
14. f__t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery
15. lactic acid bu_____p *n.* the accumulation or increase of something over time
16. pr_____le in business *n.* a fundamental law or truth that explains or controls how something happens or works
17. ec_____y of scale *n.* the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel
18. beginning of the ind_____al revolution *adj.* of or relating to or resulting from industry
19. aq_____r soil *n.* an underground layer of rock, sand, or Earth that can take in and hold water
20. an of_____re fund *adj.* situated at or happening in the sea, not far from the shore or land; (of winds) coming from the land

ANSWERS: 12. degree, 13. storage, 14. feat, 15. buildup, 16. principle, 17. economy, 18. industrial, 19. aquifer, 20. offshore

21. re_____se a used car
v. to use something again for a different purpose than it was originally intended
22. live in a cl_____r
n. a group of similar things or people close together, often forming a distinct mass or unit
23. say def_____ly
adv. without any question and beyond doubt; clearly
24. 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
25. black gr_____e
n. a tough, durable, and coarse-grained igneous rock often used in construction for buildings, monuments, and sculptures
26. his research area of
con_____ion
n. the ability to focus all your time and energy on one thing without thinking about anything else.
27. de_____e glycogen stores
v. to reduce something, especially supplies of energy, money, etc., by a large amount; to use up resources or materials
28. inn_____on leader
n. the creation of a new device or process resulting from study and experimentation
29. chaotic env_____nt
n. the natural world such as air, water, and land in which humans, animals, and plants live
30. self-suf_____nt economy
adj. adequate; enough for a particular purpose or requirement

ANSWERS: 21. repurpose, 22. cluster, 23. definitely, 24. metric, 25. granite, 26. concentration, 27. deplete, 28. innovation, 29. environment, 30. sufficient

31. a ch____al compound *adj.* relating to or connected with chemistry;
32. the yi__d on the bond *n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
33. com_____on number *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
34. ec____y class *n.* the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel
35. a st____e battery *n.* the act or process of putting in and keeping something in a particular place for use in the future; an electronic memory device that can store information
36. op____ze a process *v.* to make the best or most effective use of something
37. ex____d sales targets *v.* to surpass or go beyond a limit, expectation, or requirement; to be better or greater than anticipated or desired
38. gov_____nt bureaucracy *n.* the group of people with authority to control a country or state
39. im____e a process *v.* to make or become better
40. s__k a buzzer-beater *v.* to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else

ANSWERS: 31. chemical, 32. yield, 33. combination, 34. economy, 35. storage, 36. optimize, 37. exceed, 38. government, 39. improve, 40. sink

41. magnetic st__l *n.* a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure
42. have a sub_____al meal *adj.* fairly large in size, value, or importance
43. huge military bu_____p *n.* the accumulation or increase of something over time
44. the me_____sm for DNA replication *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
45. und_____nd activist *adj.* under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force
46. def_____ly become a problem *adv.* without any question and beyond doubt; clearly
47. 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
48. de_____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
49. r__y entirely on him *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

ANSWERS: 41. steel, 42. substantial, 43. buildup, 44. mechanism, 45. underground, 46. definitely, 47. metric, 48. develop, 49. rely

50. sur_____ng areas *adj.* that is near or around, or closely encircling something
51. ec_____cs professor *n.* the branch of social science that deals with the production, consumption, and transfer of goods and services
52. a brief ex_____t from the book *n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
53. sta_____ne application *adj.* (of computer hardware or software) able to operate the system without being connected to other hardware or software; (also stand-alone) capable of working independently
54. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
55. pr__e of a company *n.* a feeling of deep pleasure or satisfaction derived from one's achievements
56. me_____n in a report *v.* to speak or write about something or someone briefly
57. build ope_____al excellence *adj.* relating to a particular process or series of actions for achieving a result
58. met_____tan city *adj.* of or relating to a large city or a city that is considered to be the cultural or economic center of a region or country
59. ac_____e success *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

ANSWERS: 50. surrounding, 51. economics, 52. extract, 53. standalone, 54. experiment, 55. pride, 56. mention, 57. operational, 58. metropolitan, 59. achieve

60. event of a hung par_____nt
n. a legislative body, especially the one that represents the people of a country or state
61. marginal ut_____y
n. the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public
62. city dw_____r
n. a person or animal that lives in a particular place or region; an inhabitant of a specific location
63. re_____nt by a diagram
v. to speak, act, or be present on behalf of another person or group; to form or constitute
64. introduce ope_____al software
adj. relating to a particular process or series of actions for achieving a result
65. geographical pr_____ty
n. the state or quality of being near or close to something or someone in distance or time
66. fo_____te situation
adj. having good luck or lucky
67. rural dw_____r
n. a person or animal that lives in a particular place or region; an inhabitant of a specific location
68. ac_____e milestones
v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
69. live an ab_____nt life
adj. present in great quantity
70. botanical ex_____t
n. a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force

ANSWERS: 60. parliament, 61. utility, 62. dweller, 63. represent, 64. operational, 65. proximity, 66. fortunate, 67. dweller, 68. achieve, 69. abundant, 70. extract

78. defense me_____sm *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
79. inf_____ure cost *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
80. ex_____t pipe *n.* the system in a vehicle that removes waste gases from the engine; (verb) to make someone completely tired
81. kic_____rt the project *v.* to start something by providing an initial burst of energy or enthusiasm
82. on_____e drilling *adj.* located or happening on or near the shore or coastline; relating to activities or operations that take place on land as opposed to at sea
83. me_____n weapon *n.* a unit of energy equivalent to one million tons of TNT
84. as____s the quality *v.* to judge or decide the nature or quality of someone or something
85. fa_____ty design *n.* a building or place that provides a particular service or is used for a particular industry
86. b__y emotion *v.* to place a dead body in the ground, grave, or tomb
87. su_____le amount *adj.* fit or appropriate; proper; adapted
88. re_____e the trend *v.* to change something's direction, order, position, decision, etc., to the opposite one; (adjective) directed or moving toward the rear

ANSWERS: 78. mechanism, 79. infrastructure, 80. exhaust, 81. kick-start, 82. onshore, 83. megaton, 84. assess, 85. facility, 86. bury, 87. suitable, 88. reverse

89. date su____le to both groups *adj.* fit or appropriate; proper; adapted
90. yield cu__e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
91. a seafaring na____n *n.* a large organized community of people living in a particular country or region and having a particular culture
92. emissions of gre____se gases *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
93. ta__y sheet *n.* a record or count of a particular thing often used to keep track of scores, votes, or numbers
94. ge____hy class *n.* a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth
95. s__k a lot of capital *v.* to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else
96. suf____nt time *adj.* adequate; enough for a particular purpose or requirement
97. 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
98. environmental po____on *n.* the introduction of harmful substances or waste into the natural environment that causes adverse change

ANSWERS: 89. suitable, 90. curve, 91. nation, 92. greenhouse, 93. tally, 94. geography, 95. sink, 96. sufficient, 97. electrify, 98. pollution

99. pr_____ty sensor, *n.* the state or quality of being near or close to something or someone in distance or time
100. pr_____ve a country's heritage *v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed
101. cr_____l information *adj.* extremely vital or necessary
102. ma_____in good health *v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
103. information ba_____r *n.* a fence or other obstruction that makes it hard to move or get in; any condition that makes it difficult to make progress or to achieve an objective
104. ut_____y costs *n.* the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public
105. a picture fr___e *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
106. se___e a dispute *v.* to reach an agreement of disagreement
107. am___e evidence *adj.* enough or more than enough; having plenty of something
108. op_____ze control for cooling *v.* to make the best or most effective use of something

ANSWERS: 99. proximity, 100. preserve, 101. crucial, 102. maintain, 103. barrier, 104. utility, 105. frame, 106. settle, 107. ample, 108. optimize

109. un_____on occurrence *adj.* not occurring or seen very often; rare
110. a data pi_____ne *n.* a very long large tube that is usually underground and is used for carrying liquid or gas for long distances
111. decision-making pr_____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
112. f__e boiler *n.* a pipe or tube used to remove smoke, gas, or hot air from a fire, heater, or oven
113. the degree of pu_____y *n.* the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature
114. combined ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
115. exotic plants in a gre_____se *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
116. an_____e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning
117. resource uti_____on *n.* the act or process of using something effectively or productively; the extent to which something is used

ANSWERS: 109. uncommon, 110. pipeline, 111. process, 112. flue, 113. purity, 114. oxide, 115. greenhouse, 116. analyze, 117. utilization

118. severe cr___c *n.* someone who expresses opinions about the quality of books, music, etc.
119. high pu___y *n.* the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature
120. senior research an____t *n.* someone whose job is to examine something to learn or understand more about it
121. a wel_____ugh solution *adj.* thoroughly considered or planned out; methodically analyzed or evaluated
122. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
123. public welfare und_____ng *n.* a task, business, assignment, or project, especially one that is essential or challenging
124. es_____al commodities of life *adj.* indispensable; fundamental
125. education pol_____er *n.* a person in charge of or involved in developing action plans for a political party, business, etc.
126. as_____te with people widely *v.* to mentally connect someone or something with someone or something else
127. an in_____ve to work hard *n.* something, such as a punishment, reward, etc., that encourages a person to do something
128. se___e down in the town *v.* to reach an agreement of disagreement
129. em___y job seekers *v.* to give somebody a job and pay them for it; to make use of

ANSWERS: 118. critic, 119. purity, 120. analyst, 121. well-thought-through, 122. emit, 123. undertaking, 124. essential, 125. policymaker, 126. associate, 127. incentive, 128. settle, 129. employ

130. intellectual f__t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
131. ma_____in order *v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
132. financial in_____ves *n.* something, such as a punishment, reward, etc., that encourages a person to do something
133. compliance with reg_____ry requirements *adj.* having the power to control or restrict something such as business or industry according to rules or principles
134. ma_____e stars *adj.* enormous amount; very heavy and solid
135. pi_____ne facilities *n.* a very long large tube that is usually underground and is used for carrying liquid or gas for long distances
136. consistency cr_____ia *n.* (plural of criterion) standards or conditions by which something may be judged or decided
137. an eco_____al meal *adj.* providing a satisfactory return on the money, time, or effort; not using more money, fuel, etc. than necessary
138. smokeless f__l *n.* a substance that is typically burned to generate heat or energy
139. keep a ta__y *n.* a record or count of a particular thing often used to keep track of scores, votes, or numbers
140. he__y price *adj.* large, bulky, and heavy; impressively large, substantial, or powerful; large in amount, extent, or significance

ANSWERS: 130. feat, 131. maintain, 132. incentive, 133. regulatory, 134. massive, 135. pipeline, 136. criteria, 137. economical, 138. fuel, 139. tally, 140. hefty

141. es_____te a fair value *v.* to guess or calculate the cost, size, value, etc. of something
142. an of_____re oil field *adj.* situated at or happening in the sea, not far from the shore or land; (of winds) coming from the land
143. chief con_____nt *n.* a person who provides professional or expert advice
144. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
145. hide his pr__e *n.* a feeling of deep pleasure or satisfaction derived from one's achievements
146. half a gi_____n of CO2 *n.* a unit of explosive energy equal to one billion tons of TNT (= a powerful, yellow explosive substance); one billion tons
147. ca_____e customers' hearts *v.* to catch a person or an animal and confine them in an area which they cannot escape
148. the fr__e of the policy *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
149. re__e the materials *v.* to use something again or more than once
150. toxic ch_____als *adj.* relating to or connected with chemistry;
151. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live

ANSWERS: 141. estimate, 142. offshore, 143. consultant, 144. emit, 145. pride, 146. gigaton, 147. capture, 148. frame, 149. reuse, 150. chemical, 151. environment

152. lar_____le project *adj.* involving many people or things and involving a lot of change or activity
153. genic com_____ons *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
154. pr_____le of treatment *n.* a fundamental law or truth that explains or controls how something happens or works
155. es_____al amino acid *adj.* indispensable; fundamental
156. the em_____on of light *n.* the act of production or sending out gas, heat, light, etc.
157. economic ge_____hy *n.* a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth
158. carbon dioxide in the atm_____re *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
159. con_____nt firm *n.* a person who provides professional or expert advice
160. re___e oil *v.* to make something more pure, polished, cultured, or effective; to improve, perfect, or enhance through a process of purification or development
161. 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
162. de_____e customer confidence *v.* to reduce something, especially supplies of energy, money, etc., by a large amount; to use up resources or materials

ANSWERS: 152. large-scale, 153. combination, 154. principle, 155. essential, 156. emission, 157. geography, 158. atmosphere, 159. consultant, 160. refine, 161. electrify, 162. deplete

163. col_____ion platform *n.* the act or situation of working together to create or produce something
164. on_____e wind farm *adj.* located or happening on or near the shore or coastline; relating to activities or operations that take place on land as opposed to at sea
165. 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
166. driving di_____ce *n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
167. wel_____ugh decision *adj.* thoroughly considered or planned out; methodically analyzed or evaluated
168. immune fu_____on *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
169. disband par_____nt *n.* a legislative body, especially the one that represents the people of a country or state
170. eco_____al use of her time *adj.* providing a satisfactory return on the money, time, or effort; not using more money, fuel, etc. than necessary

ANSWERS: 163. collaboration, 164. onshore, 165. fossil, 166. distance, 167. well-thought-through, 168. function, 169. parliament, 170. economical

171. social di____ce *n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
172. re_____se an old building *v.* to use something again for a different purpose than it was originally intended
173. me_____n explosion *n.* a unit of energy equivalent to one million tons of TNT
174. chimney f__e *n.* a pipe or tube used to remove smoke, gas, or hot air from a fire, heater, or oven
175. dy_____cs of economy *n.* the branch of mechanics that deals with the motion of bodies under the action of forces, including the particular case in which a body remains at rest; forces that produce or stimulate movement, growth, or change
176. regional pol_____er *n.* a person in charge of or involved in developing action plans for a political party, business, etc.
177. an endless st___m of cars *n.* a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.
178. sma_____ne addict *n.* a mobile phone that functions as a computer and connects to the Internet
179. t__p an animal *n.* a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping

ANSWERS: 171. distance, 172. repurpose, 173. megaton, 174. flue, 175. dynamics, 176. policymaker, 177. stream, 178. smartphone, 179. trap

180. set a t__p *n.* a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
181. un____on talents *adj.* not occurring or seen very often; rare
182. ad____e a cooperative relationship *v.* to go or move forward; to develop in a positive way
183. the d_n of the university *n.* a Spanish gentleman; a university lecturer, especially a senior member of a college at Oxford or Cambridge
184. equ_____nt amounts *n.* having the same value, quality, meaning, purpose, etc.
185. a cr____l issue for women *adj.* extremely vital or necessary
186. op____l for intellectual growth *adj.* the best; most likely to be successful or advantageous
187. gi____n-class bomb *n.* a unit of explosive energy equal to one billion tons of TNT (= a powerful, yellow explosive substance); one billion tons
188. me____n name *v.* to speak or write about something or someone briefly
189. ex____t a topic *n.* the system in a vehicle that removes waste gases from the engine; (verb) to make someone completely tired
190. st__l beam *n.* a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure
191. solid gr____e *n.* a tough, durable, and coarse-grained igneous rock often used in construction for buildings, monuments, and sculptures

ANSWERS: 180. trap, 181. uncommon, 182. advance, 183. Don, 184. equivalent, 185. crucial, 186. optimal, 187. gigaton, 188. mention, 189. exhaust, 190. steel, 191. granite

192. irrigation with sa___e *adj.* containing salt; of or relating to chemical salts
193. welfare ec_____cs *n.* the branch of social science that deals with the production, consumption, and transfer of goods and services
194. 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
195. a sub_____al amount of capital *adj.* fairly large in size, value, or importance
196. great und_____ng *n.* a task, business, assignment, or project, especially one that is essential or challenging
197. ca_____e a glimpse *v.* to catch a person or an animal and confine them in an area which they cannot escape
198. 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
199. fun_____al education *adj.* forming an essential base or core from which everything else develops or is affected
200. art cr___c *n.* someone who expresses opinions about the quality of books, music, etc.
201. corn yi__d *n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information

ANSWERS: 192. saline, 193. economics, 194. facility, 195. substantial, 196. undertaking, 197. capture, 198. panel, 199. fundamental, 200. critic, 201. yield

202. di____e of a used product *v.* to put things or people in a particular manner or position; to incline someone towards a specific activity or mood; throw or cast away
203. na___n-state *n.* a large organized community of people living in a particular country or region and having a particular culture
204. less fo_____te person *adj.* having good luck or lucky
205. d__t ceiling *n.* something, especially money, goods, or services owed by one person to another; the state of owing something
206. ex___d the speed limit *v.* to surpass or go beyond a limit, expectation, or requirement; to be better or greater than anticipated or desired
207. se_____ly, it is important *adv.* used to introduce the second point or item in a list or series of statements, considerations, etc.
208. subsurface aq____r *n.* an underground layer of rock, sand, or Earth that can take in and hold water
209. as___s a tax of 10 pounds *v.* to judge or decide the nature or quality of someone or something
210. kic_____rt the economy *v.* to start something by providing an initial burst of energy or enthusiasm
211. th___e in a society *v.* to grow vigorously; to make steady progress
212. ind_____al alcohol *adj.* of or relating to or resulting from industry
213. b__y in the earth *v.* to place a dead body in the ground, grave, or tomb

ANSWERS: 202. dispose, 203. nation, 204. fortunate, 205. debt, 206. exceed, 207. secondly, 208. aquifer, 209. assess, 210. kick-start, 211. thrive, 212. industrial, 213. bury

214. a fence sur_____ng a castle *adj.* that is near or around, or closely encircling something
215. lar_____le agriculture *adj.* involving many people or things and involving a lot of change or activity
216. sta_____ne approach *adj.* (of computer hardware or software) able to operate the system without being connected to other hardware or software; (also stand-alone) capable of working independently
217. water flowing und_____nd *adj.* under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force
218. a fo___l leaf *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
219. tra_____on phase *n.* the process or period of changing from one state or circumstance to another
220. ma_____al cost *adj.* of, relating to, or situated at the edge or outer limit; of secondary or minor importance; barely satisfactory or effective
221. principles of sus_____le development *adj.* able to continue or be continued for a long time
222. an ab_____nt supply of water *adj.* present in great quantity
223. fo_____st an epidemic *n.* a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance

ANSWERS: 214. surrounding, 215. large-scale, 216. standalone, 217. underground, 218. fossil, 219. transition, 220. marginal, 221. sustainable, 222. abundant, 223. forecast

224. cr____ia for action *n.* (plural of criterion) standards or conditions by which something may be judged or decided
225. banking an____t *n.* someone whose job is to examine something to learn or understand more about it
226. am__e opportunities *adj.* enough or more than enough; having plenty of something
227. ro____t strategy *n.* the introduction or implementation of a new product, service, or system, particularly one that has been planned and developed over a period of time
228. silver ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
229. an____e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
230. a convivial atm____re *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
231. se____ly connected *adv.* used to introduce the second point or item in a list or series of statements, considerations, etc.
232. a cl____r of stars *n.* a group of similar things or people close together, often forming a distinct mass or unit
233. ensure a smooth tra____on *n.* the process or period of changing from one state or circumstance to another
234. the st____m of time *n.* a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.

ANSWERS: 224. criteria, 225. analyst, 226. ample, 227. rollout, 228. oxide, 229. analyze, 230. atmosphere, 231. secondly, 232. cluster, 233. transition, 234. stream

235. di_____e battleships for a battle *v.* to put things or people in a particular manner or position; to incline someone towards a specific activity or mood; throw or cast away
236. pr_____t when she will arrive *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
237. sma_____ne app developer *n.* a mobile phone that functions as a computer and connects to the Internet
238. fu_____on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
239. cost ba_____r *n.* a fence or other obstruction that makes it hard to move or get in; any condition that makes it difficult to make progress or to achieve an objective
240. ma_____al note *adj.* of, relating to, or situated at the edge or outer limit; of secondary or minor importance; barely satisfactory or effective
241. high levels of air po_____on *n.* the introduction of harmful substances or waste into the natural environment that causes adverse change
242. major met_____tan area *adj.* of or relating to a large city or a city that is considered to be the cultural or economic center of a region or country

ANSWERS: 235. dispose, 236. predict, 237. smartphone, 238. function, 239. barrier, 240. marginal, 241. pollution, 242. metropolitan

243. et_____l plant *n.* a colorless, flammable alcohol that is produced by the fermentation of sugars and is commonly used as a fuel, solvent, and in the manufacture of alcoholic beverages
244. ad_____e the technology *v.* to go or move forward; to develop in a positive way
245. pr_____t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
246. the characters that re_____nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
247. fun_____al rights *adj.* forming an essential base or core from which everything else develops or is affected
248. ma_____e amounts *adj.* enormous amount; very heavy and solid
249. pr_____ve my strength *v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed
250. employee da_____se *n.* a large amount of data stored in a computer system in such a way that it can be searched and updated easily
251. et_____l production *n.* a colorless, flammable alcohol that is produced by the fermentation of sugars and is commonly used as a fuel, solvent, and in the manufacture of alcoholic beverages

ANSWERS: 243. ethanol, 244. advance, 245. predict, 246. represent, 247. fundamental, 248. massive, 249. preserve, 250. database, 251. ethanol

252. em___y a new method *v.* to give somebody a job and pay them for it; to make use of
253. global em_____ons of greenhouse gases *n.* the act of production or sending out gas, heat, light, etc.
254. equ_____nt in meaning *n.* having the same value, quality, meaning, purpose, etc.
255. a sa___e lake *adj.* containing salt; of or relating to chemical salts
256. 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
257. a cold cl_____e *n.* the weather in a particular location averaged over some long period
258. 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
259. learning cu___e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
260. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
261. 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

ANSWERS: 252. employ, 253. emission, 254. equivalent, 255. saline, 256. carbon, 257. climate, 258. carbon, 259. curve, 260. experiment, 261. panel

262. re__e existing knowledge *v.* to use something again or more than once
263. as_____te alcohol with gambling *v.* to mentally connect someone or something with someone or something else
264. achieve op_____l health *adj.* the best; most likely to be successful or advantageous
265. co_____al swimming pool *adj.* belonging to or used by a group rather than individuals; for common use
266. a weather fo_____st *n.* a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance
267. r__y on convenience stores *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
268. sus_____le alternative fuel *adj.* able to continue or be continued for a long time
269. col_____ion between companies *n.* the act or situation of working together to create or produce something
270. es_____te this chicken to weigh three pounds *v.* to guess or calculate the cost, size, value, etc. of something
271. technology uti_____on *n.* the act or process of using something effectively or productively; the extent to which something is used
272. re_____e the order *v.* to change something's direction, order, position, decision, etc., to the opposite one; (adjective) directed or moving toward the rear

ANSWERS: 262. reuse, 263. associate, 264. optimal, 265. communal, 266. forecast, 267. rely, 268. sustainable, 269. collaboration, 270. estimate, 271. utilization, 272. reverse

273. supply ch__n *n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
274. ch__n reaction *n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
275. pr____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
276. co____al combination of funds *adj.* belonging to or used by a group rather than individuals; for common use
277. re___e a language *v.* to make something more pure, polished, cultured, or effective; to improve, perfect, or enhance through a process of purification or development
278. man____re a product *v.* to make goods in large numbers, usually in a factory using machines

ANSWERS: 273. chain, 274. chain, 275. process, 276. communal, 277. refine, 278. manufacture

Session 3: Fill in the Blanks

1. The police placed a _____ across the street to halt traffic.
n. a fence or other obstruction that makes it hard to move or get in; any condition that makes it difficult to make progress or to achieve an objective

2. The smoke filled the room because the _____ pipe had jammed.
n. a pipe or tube used to remove smoke, gas, or hot air from a fire, heater, or oven

3. The machine should be _____ by Friday afternoon.
adj. relating to a particular process or series of actions for achieving a result

4. Without investment, a business cannot _____.
v. to grow vigorously; to make steady progress

5. 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

6. The company's _____ marketing campaign boosted sales.
adj. thoroughly considered or planned out; methodically analyzed or evaluated

7. Scientific knowledge will _____ significantly with the power of AI.
v. to go or move forward; to develop in a positive way

8. There are five distinct _____ at five unique wavelengths.
n. the act of production or sending out gas, heat, light, etc.

ANSWERS: 1. barrier, 2. flue, 3. operational, 4. thrive, 5. fossil, 6. well-thought-through, 7. advance, 8. emissions

9. He became in _____ after losing his job.

n. something, especially money, goods, or services owed by one person to another; the state of owing something

10. I need to _____ my car regularly to prevent any major mechanical issues.

v. to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true

11. We elected him to _____ us at the international conference.

v. to speak, act, or be present on behalf of another person or group; to form or constitute

12. If we continue to _____ the Earth's natural resources, we will cause severe damage to the environment.

v. to reduce something, especially supplies of energy, money, etc., by a large amount; to use up resources or materials

13. The recent economic downturn has resulted in _____ layoffs.

adj. enormous amount; very heavy and solid

14. The marathon runner covered a long _____ in a short amount of time.

n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

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

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

16. The _____ scarcity most severely impacted the manufacturing sector

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

ANSWERS: 9. debt, 10. maintain, 11. represent, 12. deplete, 13. massive, 14. distance, 15. estimated, 16. fuel

17. Internet traffic volumes have increased significantly with the advent of _____.
- n.* a mobile phone that functions as a computer and connects to the Internet
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. Project planning for software development is never an easy _____.
- n.* a task, business, assignment, or project, especially one that is essential or challenging
20. They have no _____ to win the game.
- n.* something, such as a punishment, reward, etc., that encourages a person to do something
21. 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
22. Our company needs to _____ the business impact of climate change.
- v.* to judge or decide the nature or quality of someone or something
23. The old barn was _____ into a modern event space.
- v.* to use something again for a different purpose than it was originally intended
24. _____ elections were held in several European countries.
- adj.* belonging to or used by a group rather than individuals; for common use

ANSWERS: 17. smartphones, 18. facility, 19. undertaking, 20. incentive, 21. electrify, 22. assess, 23. repurposed, 24. Communal

25. Generally speaking, the child is innately _____ to learn a language.
v. to put things or people in a particular manner or position; to incline someone towards a specific activity or mood; throw or cast away
26. I _____ to him that I had seen his sister at the grocery store earlier that day.
v. to speak or write about something or someone briefly
27. The drug is dissolved in a _____ solution.
adj. containing salt; of or relating to chemical salts
28. The company's stock gives a high _____.
n. the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
29. He was pretty _____ to pass the exam.
adj. having good luck or lucky
30. The abandoned ship slowly began to _____ into the murky waters of the harbor.
v. to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else
31. She did well on her _____ exam.
n. a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth
32. The spaceship began to burn up as it approached the Earth's _____.
n. the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work

ANSWERS: 25. disposed, 26. mentioned, 27. saline, 28. yield, 29. fortunate, 30. sink, 31. geography, 32. atmosphere

33. 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
34. The power of a _____ bomb is equivalent to one million tons of TNT.
n. a unit of energy equivalent to one million tons of TNT
35. She took great _____ in her work, always striving for perfection.
n. a feeling of deep pleasure or satisfaction derived from one's achievements
36. The company is working to _____ its production process to be more efficient.
v. to make something more pure, polished, cultured, or effective; to improve, perfect, or enhance through a process of purification or development
37. The _____ of the two cities makes it easy to travel between them.
n. the state or quality of being near or close to something or someone in distance or time
38. Every human is responsible for taking care of the Earth's _____.
n. the natural world such as air, water, and land in which humans, animals, and plants live
39. The _____ for applying for a visa can be lengthy and complicated.
n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
40. The _____ mountains make the city difficult to be invaded.
adj. that is near or around, or closely encircling something

ANSWERS: 33. metric, 34. megaton, 35. pride, 36. refine, 37. proximity, 38. environment, 39. process, 40. surrounding

41. Trial and error is an _____ part of education.

adj. indispensable; fundamental

42. The nation's healthcare system is in _____ at the moment.

n. the process or period of changing from one state or circumstance to another

43. The company is planning to make a _____ expansion of its factory.

adj. involving many people or things and involving a lot of change or activity

44. When making arrests, police officers frequently _____ excessive force.

v. to give somebody a job and pay them for it; to make use of

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

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

46. He didn't meet all the _____ but he was hired anyway.

n. (plural of criterion) standards or conditions by which something may be judged or decided

47. The dress was _____ for the formal occasion.

adj. fit or appropriate; proper; adapted

48. The company undertakes _____ development for software companies in many countries.

adj. situated at or happening in the sea, not far from the shore or land; (of winds) coming from the land

49. Some areas melt snow by harnessing heat from underground _____.

n. an underground layer of rock, sand, or Earth that can take in and hold water

ANSWERS: 41. essential, 42. transition, 43. large-scale, 44. employ, 45. critics, 46. criteria, 47. suitable, 48. offshore, 49. aquifers

50. Aging societies tend to require huge costs for _____ maintenance.
n. the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
51. The supermarket encourages shoppers to _____ plastic bags.
v. to use something again or more than once
52. The government should do more to support environmentally _____ agriculture.
adj. able to continue or be continued for a long time
53. The _____ box of books was too heavy to lift on my own.
adj. large, bulky, and heavy; impressively large, substantial, or powerful; large in amount, extent, or significance
54. The country has _____ oil and natural gas resources.
adj. present in great quantity
55. He could never go against what _____ Carlos said.
n. a Spanish gentleman; a university lecturer, especially a senior member of a college at Oxford or Cambridge
56. The company's profits have only been _____ this year, but they're hoping for a better year.
adj. of, relating to, or situated at the edge or outer limit; of secondary or minor importance; barely satisfactory or effective
57. She needed to _____ her weight loss journey.
v. to start something by providing an initial burst of energy or enthusiasm

ANSWERS: 50. infrastructure, 51. reuse, 52. sustainable, 53. hefty, 54. abundant, 55. Don, 56. marginal, 57. kick-start

58. This exam requires excellent _____ to pass.

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

59. There is plenty of space to _____ everyone.

- v.* to place a dead body in the ground, grave, or tomb

60. The shipping company decided to switch to _____ storage to reduce costs.

- adj.* located or happening on or near the shore or coastline; relating to activities or operations that take place on land as opposed to at sea

61. We want to _____ ties between our two countries.

- v.* to make or become better

62. The essence of economics is to _____ the allocation of limited resources.

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

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

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

64. Firstly, we will discuss the budget; _____ we will go over the schedule.

- adv.* used to introduce the second point or item in a list or series of statements, considerations, etc.

65. Let's keep a _____ of the votes to see who won the election.

- n.* a record or count of a particular thing often used to keep track of scores, votes, or numbers

ANSWERS: 58. concentration, 59. bury, 60. onshore, 61. improve, 62. optimize, 63. economy, 64. secondly, 65. tally

66. Rebels sabotaged the main _____ supplying oil.

n. a very long large tube that is usually underground and is used for carrying liquid or gas for long distances

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

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

68. Anesthetize the gum before _____ the teeth.

n. a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force

69. The federal _____ is planning to increase taxes for the next fiscal year.

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

70. We store customer data in cloud _____.

n. the act or process of putting in and keeping something in a particular place for use in the future; an electronic memory device that can store information

71. During the unloading, the container box _____ a clicking sound.

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

72. The athlete's performance _____ all expectations, breaking a world record.

v. to surpass or go beyond a limit, expectation, or requirement; to be better or greater than anticipated or desired

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

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

ANSWERS: 66. pipeline, 67. underground, 68. extracting, 69. government, 70. storage, 71. emits, 72. exceeded, 73. analyze

74. We hired a management _____ to help us improve our business strategy.
n. a person who provides professional or expert advice
75. The majority of consumers _____ this brand with quality.
v. to mentally connect someone or something with someone or something else
76. The _____ of stress over time can lead to health problems.
n. the accumulation or increase of something over time
77. The vegetarian burger was an _____ that quickly spread to the United Kingdom.
n. the creation of a new device or process resulting from study and experimentation
78. Their team specializes in demand _____ for our products.
n. a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance
79. His class will cover an introduction to agricultural _____.
n. the branch of social science that deals with the production, consumption, and transfer of goods and services
80. The brain is an incredibly complex organ that controls the body's _____.
n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
81. We have _____ time to finish the project before the deadline.
adj. enough or more than enough; having plenty of something

ANSWERS: 74. consultant, 75. associate, 76. buildup, 77. innovation, 78. forecasts, 79. economics, 80. function, 81. ample

82. He was a member of _____.

- n.* a legislative body, especially the one that represents the people of a country or state

83. The earthquake that hit the Pacific Ocean last night is said to have released about 30 _____ of energy.

- n.* a unit of explosive energy equal to one billion tons of TNT (= a powerful, yellow explosive substance); one billion tons

84. I was able to _____ the moment on film.

- v.* to catch a person or an animal and confine them in an area which they cannot escape

85. Human behavior has _____ characteristics.

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

86. The pandemic was a _____ business opportunity for certain companies.

- adj.* fairly large in size, value, or importance

87. The revitalization of technology companies is _____ to the country's growth.

- adj.* extremely vital or necessary

88. The blood's red coloring comes from iron _____.

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

89. It is an incredible _____ to climb Mount Everest, the highest mountain in the world.

- n.* a notable or impressive achievement, especially one that requires great skill or bravery

ANSWERS: 82. parliament, 83. gigatons, 84. capture, 85. fundamental, 86. substantial, 87. crucial, 88. oxide, 89. feat

90. The _____ of the device was immediately apparent to all who saw it.
n. the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public
91. Efficiency isn't an essential _____ here; fairness is.
n. a fundamental law or truth that explains or controls how something happens or works
92. He discovered unique _____ for photochemical reactions.
n. a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
93. The majority of synthetic vitamins are _____ from oil.
v. to make goods in large numbers, usually in a factory using machines
94. It was _____ for the store to have such a big sale.
adj. not occurring or seen very often; rare
95. The company announced the _____ of its new product line next month.
n. the introduction or implementation of a new product, service, or system, particularly one that has been planned and developed over a period of time
96. The _____ in the road was so sharp that I had to slow down to navigate it safely.
n. a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
97. It is more _____ to wash your plastic bottle and reuse it.
adj. providing a satisfactory return on the money, time, or effort; not using more money, fuel, etc. than necessary

ANSWERS: 90. utility, 91. principle, 92. mechanisms, 93. manufactured, 94. uncommon, 95. rollout, 96. curve, 97. economical

98. We never prescribe medication as a _____ treatment.

adj. (of computer hardware or software) able to operate the system without being connected to other hardware or software; (also stand-alone) capable of working independently

99. Babies heavily _____ on others for food.

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

100. The European Central Bank is Europe's _____ of the Federal Reserve.

n. having the same value, quality, meaning, purpose, etc.

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

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

102. The enemy fell right into the _____.

n. a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping

103. The production of _____ can have environmental benefits if produced from renewable sources.

n. a colorless, flammable alcohol that is produced by the fermentation of sugars and is commonly used as a fuel, solvent, and in the manufacture of alcoholic beverages

104. The mountain _____ lived off the land and had a deep connection to nature.

n. a person or animal that lives in a particular place or region; an inhabitant of a specific location

ANSWERS: 98. standalone, 99. rely, 100. equivalent, 101. predict, 102. trap, 103. ethanol, 104. dweller

105. Jet _____ are the common name for air currents that form high in the atmosphere.

n. a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.

106. We must _____ a new system to streamline our workflow and increase efficiency.

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

107. I don't want to _____ for second best.

v. to reach an agreement of disagreement

108. Wild animals need to go forward with the _____ action to survive.

adj. the best; most likely to be successful or advantageous

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

adj. of or relating to or resulting from industry

110. A _____ of grapes hung from the vine.

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

111. The detective looked for fingerprints on the window _____.

n. a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window

112. The _____ effect is a phenomenon that happens naturally.

n. a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in

ANSWERS: 105. streams, 106. develop, 107. settle, 108. optimal, 109. Industrial, 110. cluster, 111. frame, 112. greenhouse

113. The city is a true _____ with a diverse population and bustling streets.

adj. of or relating to a large city or a city that is considered to be the cultural or economic center of a region or country

114. The restaurant _____ a ban on smoking.

v. to change something's direction, order, position, decision, etc., to the opposite one; (adjective) directed or moving toward the rear

115. The relationship _____ between the two countries were complex and constantly changing.

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

116. The _____ concluded that bankruptcy was inevitable.

n. someone whose job is to examine something to learn or understand more about it

117. That candidate does not have _____ means to win an election with certainty.

adj. adequate; enough for a particular purpose or requirement

118. I will work hard to _____ my goals and realize my dreams.

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

119. The countertop was polished _____ giving it a sleek and modern look.

n. a tough, durable, and coarse-grained igneous rock often used in construction for buildings, monuments, and sculptures

ANSWERS: 113. metropolitan, 114. reversed, 115. dynamics, 116. analyst, 117. sufficient, 118. achieve, 119. granite,

120. Higher _____ requires additional equipment and energy.

- n.* the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature

121. This bridge is the third largest _____ bridge in the world.

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

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

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

123. The factory's _____ fumes polluted the air and affected the health of the nearby residents.

- n.* the system in a vehicle that removes waste gases from the engine; (verb) to make someone completely tired

124. The partnership program requires a mutual _____ between both agencies.

- n.* the act or situation of working together to create or produce something

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

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

126. They worked hard to _____ the nature of their native lands.

- v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed

127. 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

ANSWERS: 120. purity, 121. steel, 122. Climate, 123. exhaust, 124. collaboration, 125. pollution, 126. preserve, 127. panel

128. _____ struggle to develop various laws and regulations to address international trade conflicts.
n. a person in charge of or involved in developing action plans for a political party, business, etc.
129. The _____ to the safe was a secret.
n. a collection of things that have been combined; an assemblage of separate parts or qualities
130. The firm has grown into a large _____ manufacturing.
adj. relating to or connected with chemistry;
131. 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
132. The paper is _____ worth reading thoroughly.
adv. without any question and beyond doubt; clearly
133. The _____ on my bike broke, leaving me stranded.
n. a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
134. She received her _____ in psychology from the university.
n. a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
135. In the past, Japanese banks were protected by _____ control.
adj. having the power to control or restrict something such as business or industry according to rules or principles

ANSWERS: 128. Policymakers, 129. combination, 130. chemical, 131. carbon, 132. definitely, 133. chain, 134. degree, 135. regulatory

136. The _____ of Japan is known for its unique culture and advanced technology.

- n.* a large organized community of people living in a particular country or region and having a particular culture

137. The _____ of renewable energy sources is crucial for the future of our planet.

- n.* the act or process of using something effectively or productively; the extent to which something is used

138. Each country's officials can access the central _____.

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

139. His _____ showed highly positive results.

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

ANSWERS: 136. nation, 137. utilization, 138. database, 139. experiments