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Lisa Dyson: A forgotten Space Age technology could change how we grow food | TED Talk

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

All Words

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Session 1: Word List

crew

n. a group of people who work together, especially on a ship or airplane

synonym: team, group, squad

(1) the film **crew**, (2) the **crew** of a fishing boat

The ship's **crew** worked hard to repair the damaged sails before the next storm hit.

astronaut

n. a person trained by a space agency to travel outside the Earth's atmosphere

synonym: spaceman, cosmonaut

(1) **astronaut** mission, (2) **astronaut** in training

The shuttle **astronaut** trained for months before embarking on the space mission.

mar

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

synonym: damage, deface, disfigure

(1) **mar** a proper relationship, (2) **mar** the reputation

The scratches on the car **marred** its otherwise perfect appearance.

distant

adj. far away in space, time, or where you are; far apart in relevance, relationship, or kinship

synonym : far, isolated, remote

(1) a **distant** memory, (2) **distant** ancestors

The sun set over the crest of **distant** hills.

planet

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

synonym : earth, world, globe

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

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

minimal

adj. tiny in amount; the least possible

synonym : tiniest, essential, minimum

(1) **minimal** effort, (2) **minimal** amount

The process was carried out at **minimal** cost.

packet

n. a small container or envelope that holds one or more items typically used for storing or transporting items like food, medicine, or marketing materials

synonym : package, parcel, bundle

(1) **packet** delivery, (2) **packet** data network

I need to buy a **packet** of biscuits from the store.

crop

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

synonym : output, produce, product

(1) **crop** field, (2) **crop** herbicide

Sow early for an early **crop**.

duration

n. the length of time something lasts or continues

synonym : period, span, course

(1) the **duration** of insurance, (2) short **duration**

The military incarcerated him for the **duration** of the war.

involve

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

synonym: implicate, include, engage

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

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

microorganism

n. a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope

synonym: germ, microbe, bacterium

(1) pathogenic **microorganism**, (2) **microorganisms** in his gut

This **microorganism** is a producer of respiratory disease.

hydrogen

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

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

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

microbe

n. a tiny living thing that can only be seen with a microscope and that may cause disease

synonym: germ, microorganism, bacterium

(1) pathogenic **microbe**, (2) **microbes** sterilizer

Microbes thrive on the surface of the human skin.

virtue

n. high moral standards in behavior or attitudes

synonym: integrity, probity, goodness

(1) **virtue** of frugality, (2) acquire a **virtue**

She had many good **virtues** and few faults.

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.

sustain

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

synonym: maintain, nurture, support

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

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

onboard

v. to become or make part of a team, group, or system; to install, activate, or begin using a piece of equipment or software; (adjective) included or integrated into a particular system, machine, or device

synonym: embark, aboard, on-load

(1) **onboard** the new employees, (2) **onboard** computer

The passengers were instructed to **onboard** the aircraft as quickly as possible so that the flight could depart on time.

spacecraft

n. a vehicle designed to travel through space, typically carrying astronauts or scientific instruments

synonym: spaceship, satellite, probe

(1) **spacecraft** launch, (2) alien **spacecraft**

The human-crewed **spacecraft** successfully landed on the moon, fulfilling its mission.

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.

convert

v. to have a talk with someone; (adjective) reversed in order, relation, or action

synonym: alter, remake, transform

(1) **convert** fat into energy, (2) **convert** base 10 to base 16

I want to **convert** my sadness into strength.

exhale

v. to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently

synonym: breathe out, expel, emit

(1) **exhale** a big sigh, (2) **exhale** cigarette smoke

He took a deep breath and slowly began to **exhale**.

loop

n. a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself

synonym: circle, curl, spiral

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

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

survive

v. to live or exist despite a dangerous event or period

synonym: endure, persist, stay

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

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

recycle

v. to sort and collect things to process them and produce valuable materials that can be used again

synonym: reclaim, reuse, reprocess

(1) **recycle** the cardboard boxes, (2) **recycle** milk packaging into new paper

We largely **recycle** the circuit board of cell phones because they contain a lot of valuable metals.

colleague

n. one of a group of a coworker, especially in a profession or a business

synonym: coworker, associate, fellow

(1) collaborate with **colleagues**, (2) former **colleague**

I decided to seek counseling on the advice of my **colleague**.

reed

n. a tall, slender-leaved plant that grows in water; a thin strip of wood or metal that vibrates to produce sound in certain musical instruments such as oboe, clarinet, and saxophone

synonym : cane, grass

(1) **reed** instrument, (2) a young bud of **reed**

The **reed** in the wind instrument needs to be replaced.

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.

discovery

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

synonym : finding, uncovering, detection

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

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

spaceship

n. (especially in science fiction) a spacecraft designed to carry a crew into interstellar space

synonym : starship, rocket, spacecraft

(1) a **spaceship** to survey the moon, (2) alien **spaceship**

They launched a crewless **spaceship** into space.

cultivate

v. to prepare and foster land for growing crops or plants

synonym : boost, foster, nurture

(1) **cultivate** a field, (2) **cultivate** relationships

University is a great place to **cultivate** our minds and expertise.

supercharge

v. to increase the power or energy of something

synonym : boost, enhance, power up

(1) **supercharge** economic growth, (2) **supercharge** the battery

They **supercharged** the engine to get more power.

largely

adv. virtually entirely; to a large degree

synonym : mainly, chiefly, broadly

(1) **largely** accepted, (2) **largely** mitigate the issue

Nevada is **largely** a desert state.

overlook

v. to fail to notice something; to watch over someone; to provide a view from above

synonym : disregard, look down, supervise

(1) **overlook** a street, (2) **overlook** that fact

We cannot **overlook** an opportunity for great success.

cult

n. a small religious group, especially one that is not part of a larger religion and that is regarded as outside the norm; followers of an exclusive system of beliefs and practices

synonym : sect, faith, religion

(1) **cult** members, (2) **cult's** practices

The **cult** leader promised his followers that they would achieve enlightenment if they followed his teachings.

lab

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

synonym : workshop, laboratory, research chamber

(1) **lab** instrument, (2) medical **lab**

The Prime Minister will pay a courtesy visit to the Nobel laureate's **lab**.

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.

amino

n. compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH₂) that combine to make protein

(1) **amino** compound, (2) **amino** acid

This company was granted a patent for its **amino** resin manufacturing process.

acid

n. sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials

synonym: SOUR

(1) an **acid** reaction, (2) good source of essential amino **acids**

During pregnancy, the stomach generates less **acid** than usual.

protein

n. a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues

(1) stress **protein**, (2) **protein** synthesis

The body needs a certain amount of **protein** to build and repair tissues.

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.

citrus

n. a group of fruits that belong to the citrus family, including oranges, lemons, limes, and grapefruits; the trees that bear these fruits

synonym: orange, lemon, lime

(1) **citrus** trees, (2) **citrus** scent

Citrus fruits like oranges and lemons are high in vitamin C.

flavoring

n. a substance or combination of substances used to add taste or aroma to food or drink; a controlled substance used to mask the taste or odor of another substance

synonym : spice, seasoning, essence

(1) beverage **flavoring**, (2) natural **flavoring**

The recipe calls for adding a dash of vanilla **flavoring** to the batter.

fragrance

n. a pleasant or sweet smell, especially one that is natural to a particular substance

synonym : aroma, scent, perfume

(1) **fragrance** oil, (2) lavender **fragrance**

The **fragrance** of the roses filled the air and brought a smile to my face.

biodegrade

v. to decay naturally by microorganisms, such as bacteria and fungi

(1) **biodegrade** by the microorganism, (2) bioplastic designed to **biodegrade**

The company's plastic products are easily **biodegraded** thanks to a unique manufacturing process.

jet

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

synonym : plane, aircraft, flier

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

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

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

palm

n. the inner surface of the hand from the wrist to the base of the fingers; any plant of the family *Palmae* having an unbranched trunk crowned by large pinnate or palmate leaves

synonym : hand, fist

(1) the **palm** side of the forearm, (2) coconut **palm** trees
This high-performance camera is compact enough to fit in the **palm** of your hand.

consume

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

synonym : absorb, ingest, use up

(1) **consume** a large of alcohol, (2) **consume** electricity
A smaller car will **consume** less fuel.

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.

profitable

adj. making or likely to make material gain or profit

synonym : advantageous, beneficial, thriving

(1) a **profitable** job, (2) **profitable** trade

The Prohibition amendment made bootlegging **profitable**.

beneficial

adj. helpful, useful, or sound; promoting or enhancing well-being

synonym : useful, advantageous, fruitful

(1) a **beneficial** result, (2) **beneficial** to all countries

Laughing is **beneficial** to our health.

agriculture

n. the practice or science of cultivating the land or raising stock

synonym : farming, husbandry, agribusiness

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

Agriculture is the foundation of our economy.

sustainable

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

synonym : continuable, endurable, tolerable

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

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

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.

addition

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

synonym : accumulation, expansion, addendum

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

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

modern

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

synonym : contemporary, stylish, current

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

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

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.

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.

combine

v. to join or merge to form a single thing or group
synonym: coalesce, cohere, blend

(1) **combine** chemically with another substance,
(2) **combine** augmented reality

Hydrogen and oxygen **combine** to form water.

livestock

n. farm animals and birds such as cows, sheep, and chickens

synonym: cattle, oxen, herd

(1) **livestock** agriculture, (2) **livestock** industry

Livestock feed is made from fodder crops.

roughly

adv. approximately but not precisely; with a violent manner
synonym: approximately, more or less, around

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

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

specific

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

synonym: particular, definite, distinct

(1) **specific** instructions, (2) industry- **specific** regulations

The scientist conducted a study that provided **specific** details about the species' behavior.

virgin

n. a person who has never had sex; (adjective) being used or worked for the first time

synonym: virtuous, vestal, beginner

(1) **virgin** material, (2) enter **virgin** territory

Within a few years, no **virgin** forests will remain.

rainforest

n. a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall

(1) **rainforest** destruction, (2) tropical **rainforest**

The destruction of the **rainforest** is a ticking time bomb for the Earth.

approximately

adv. close to a specific number or time but not exactly that number or time

synonym : about, around, roughly

(1) **approximately** 3 feet long, (2) **approximately** same

This trail takes **approximately** 2.5 hours.

diversity

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

synonym : variety, multiplicity, variousness

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

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

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.

insect

n. any small creature that has six legs and a body divided into three sections

(1) **insect** antenna, (2) **insect** biology

These **insects** are more prevalent above a certain latitude.

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.

primarily

adv. mainly

synonym: largely, mainly, mostly

(1) intended **primarily** for young people, (2) **primarily** affect adults

All peaceful cooperation is based **primarily** on mutual trust.

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.

detergent

n. a substance used for washing or cleaning, especially one that can remove dirt or stains effectively

synonym: soap, cleanser, disinfectant

(1) **detergent** solution, (2) laundry **detergent**

I use environmentally friendly **detergent** when I wash my clothes and dishes.

numerous

adj. amounting to a large indefinite number

synonym: many, considerable, countless

(1) **numerous** countries, (2) as **numerous** as the sand

These descriptions are based on a number of **numerous** assumptions.

beneficiary

n. a person who receives benefits or advantage from something, especially a financial trust or a will

synonym: recipient, heir, inheritor

(1) the **beneficiary** of a trust, (2) primary **beneficiary**

She was the sole **beneficiary** of her grandfather's estate.

specifically

adv. only associated with or meant for one thing

synonym : especially, particularly, notably

(1) designed **specifically** for men, (2) for **specifically** American customers

This ad campaign is aimed **specifically** at young women.

ecosystem

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

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

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

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**.

exotic

adj. originating from or characteristic of a foreign country or culture; strikingly unusual, uncommon, or intriguing

synonym : foreign, alien, unfamiliar

(1) **exotic** species, (2) **exotic** vacation

I love trying **exotic** foods from different cultures.

hydrothermal

adj. relating to hot water or steam, especially in the Earth's crust, and the thermal energy and chemical reactions that occur as a result

synonym : geothermal, thermal, volcanic

(1) **hydrothermal** vents, (2) **hydrothermal** chemistry

The **hydrothermal** activity in this area creates a unique environment for marine creatures.

vent

n. a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion

synonym : duct, outlet, venthole

(1) volcanic **vent**, (2) **vent** tube

He gave **vent** to his anger by playing the guitar.

nutrient

n. any substance that is essential for the maintenance and growth of living things

synonym : food, vitamin

(1) **nutrient** medicine, (2) a **nutrient** for hair

They used fast-acting **nutrients** on the flowers in the flower beds.

carbohydrate

n. (also carb) any of a class of organic compounds that includes sugars, starch, and cellulose and are a principal source of energy in the diet of animals

synonym : sugar, starch, cellulose

(1) complex **carbohydrate**, (2) **carbohydrate** metabolism

Foods high in **carbohydrates** include bread, pasta, and rice.

integral

adj. necessary to make a whole complete; essential, or fundamental; combining with something else to form a whole; (noun, of mathematics) a fundamental concept in calculus that represents the area under a curve between two points on a graph

synonym : essential, fundamental, indispensable

(1) **integral** function, (2) **integral** component

Effective communication is an **integral** part of any successful team.

noir

adj. a type of film or literature that emphasizes crime, darkness, and moral ambiguity, often using shadowy, low-light cinematography or atmospheric prose; meaning "black" or "dark" in French

synonym : dark, shadowy, black

(1) **noir** crime novel, (2) **noir** atmosphere

The film **noir** genre is known for its dark and brooding atmosphere.

brew

v. to make beer or tea by mixing a substance with hot water

synonym : make, prepare

(1) **brew** a cup of tea, (2) **brew** beer

I am going to **brew** some coffee this morning.

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.

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.

locate

v. to specify or determine the exact position of someone or something

synonym : discover, find, place

(1) **locate** a missing pet, (2) **locate** a tumor

The robot can accurately **locate** construction material.

vertical

adj. upright or perpendicular to a horizontal surface or line

synonym : perpendicular, upright, plumb

(1) **vertical** takeoff, (2) **vertical** axis

The ladder leaned against the **vertical** surface of the building.

tradition

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

synonym : custom, practice, ritual

(1) a **tradition** of a culture, (2) against **tradition**

It is a **tradition** in many families to have a big Thanksgiving dinner with all their relatives.

horizontal

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

synonym : even, lying, parallel

(1) **horizontal** lines, (2) **horizontal** stripes

Airplanes need **horizontal** tails to improve stability.

implement

v. to put a decision, plan, or system into effect

synonym : execute, enforce, put through

(1) **implement** a corporate strategy, (2) **implement** security measures

The government promised to **implement** a new system to control the financial crisis.

instance

n. a particular example or single occurrence of something

synonym : example, sample, illustration

(1) for **instance**, (2) notable **instance**

These articles cite five **instances** of climate change.

soybean

n. a legume crop widely cultivated for its nutritious seeds, often ground into meal or pressed into oil for food products, with other uses including animal feed, fuel, and industrial applications

synonym : soya, edamame

(1) **soybean** oil, (2) **soybean** production

The farmer harvested his **soybean** crop and took it to market.

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.

wheat

n. a cereal plant that is the most important kind grown in temperate countries, the grain of which is ground to make flour for bread, pasta, pastry, etc

synonym : grain, cereal

(1) harvesting **wheat**, (2) **wheat** crop

The farmer grew **wheat** on his land.

coconut

n. the large, hard-shelled seed of a tropical palm, which has a fibrous husk surrounding a single-seeded nut

(1) **coconut** milk, (2) **coconut** oil

He cracked open a **coconut** to drink the milk.

nutritional

adj. of or relating to the substance required by the body to maintain health and growth

synonym : nourishing, healthy, wholesome

(1) **nutritional** supplement, (2) bit of **nutritional** yeast

The **nutritional** value of the food should be clearly labeled on the packaging.

quo

n. the existing state or condition of something, especially in relation to a particular situation or issue

synonym : status, condition, state

(1) status **quo** politician, (2) **quo** warranto

The company has been successful in maintaining the status **quo**.

progeny

n. the descendants or offspring of a person, animal, or plant

synonym : offspring, children, descendants

(1) **progeny** viral DNA, (2) **progeny** of plants

The royal family has much **progeny** scattered across the globe.

abundance

n. a significant amount of something; the situation in which there is too much of something

synonym : plenty, affluence, plentitude

(1) an age of **abundance**, (2) an **abundance** of examples

A healthy farm provides an **abundance** of food.

Session 2: Spelling

1. primary ben_____ry
n. a person who receives benefits or advantage from something, especially a financial trust or a will
2. 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
3. ex___c vacation
adj. originating from or characteristic of a foreign country or culture; strikingly unusual, uncommon, or intriguing
4. am__o acid
n. compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH₂) that combine to make protein
5. laundry de_____nt
n. a substance used for washing or cleaning, especially one that can remove dirt or stains effectively
6. me_____n in a report
v. to speak or write about something or someone briefly
7. mo___n poetry
adj. of or belonging to the present time or recent times
8. heavy hy_____en
n. the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
9. c__p field
n. a plant that is cultivated in large amounts, particularly for food

ANSWERS: 1. beneficiary, 2. sink, 3. exotic, 4. amino, 5. detergent, 6. mention, 7. modern, 8. hydrogen, 9. crop

- | | | |
|--------------------------------|------|---|
| 10. e__t air pollution | v. | to give off or send out something such as light, heat, sound, gas, etc. |
| 11. man_____re an enzyme | v. | to make goods in large numbers, usually in a factory using machines |
| 12. an ab_____ce of examples | n. | a significant amount of something; the situation in which there is too much of something |
| 13. pa___t data network | n. | a small container or envelope that holds one or more items typically used for storing or transporting items like food, medicine, or marketing materials |
| 14. la_____y accepted | adv. | virtually entirely; to a large degree |
| 15. volcanic v__t | n. | a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion |
| 16. enter vi___n territory | n. | a person who has never had sex; (adjective) being used or worked for the first time |
| 17. medical l_b | n. | a workplace for the conduct of scientific research; a laboratory |
| 18. former co_____ue | n. | one of a group of a coworker, especially in a profession or a business |
| 19. co_____e augmented reality | v. | to join or merge to form a single thing or group |
| 20. mi_____es sterilizer | n. | a tiny living thing that can only be seen with a microscope and that may cause disease |

ANSWERS: 10. emit, 11. manufacture, 12. abundance, 13. packet, 14. largely, 15. vent, 16. virgin, 17. lab, 18. colleague, 19. combine, 20. microbe

21. pr____n synthesis *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
22. ci___s scent *n.* a group of fruits that belong to the citrus family, including oranges, lemons, limes, and grapefruits; the trees that bear these fruits
23. nut______al supplement *adj.* of or relating to the substance required by the body to maintain health and growth
24. harvesting wh__t *n.* a cereal plant that is the most important kind grown in temperate countries, the grain of which is ground to make flour for bread, pasta, pastry, etc
25. change the ec____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
26. n__r crime novel *adj.* a type of film or literature that emphasizes crime, darkness, and moral ambiguity, often using shadowy, low-light cinematography or atmospheric prose; meaning "black" or "dark" in French
27. su____e a blizzard *v.* to live or exist despite a dangerous event or period
28. for spe____lly American customers *adv.* only associated with or meant for one thing
29. in____al component *adj.* necessary to make a whole complete; essential, or fundamental; combining with something else to form a whole; (noun, of mathematics) a fundamental concept in calculus that represents the area under a curve between two points on a graph

ANSWERS: 21. protein, 22. citrus, 23. nutritional, 24. wheat, 25. ecosystem, 26. noir, 27. survive, 28. specifically, 29. integral

30. car_____ate metabolism *n.* (also carb) any of a class of organic compounds that includes sugars, starch, and cellulose and are a principal source of energy in the diet of animals
31. in___t biology *n.* any small creature that has six legs and a body divided into three sections
32. su_____e a plane crash *v.* to live or exist despite a dangerous event or period
33. emissions of gre_____se gases *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
34. b__w a cup of tea *v.* to make beer or tea by mixing a substance with hot water
35. 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
36. pro_____le trade *adj.* making or likely to make material gain or profit
37. q_o warranto *n.* the existing state or condition of something, especially in relation to a particular situation or issue
38. the du_____on of insurance *n.* the length of time something lasts or continues
39. bioplastic designed to bio_____de *v.* to decay naturally by microorganisms, such as bacteria and fungi
40. man_____re a product *v.* to make goods in large numbers, usually in a factory using machines

ANSWERS: 30. carbohydrate, 31. insect, 32. survive, 33. greenhouse, 34. brew, 35. develop, 36. profitable, 37. quo, 38. duration, 39. biodegrade, 40. manufacture

- | | |
|--------------------------------|---|
| 41. a pro_____le job | <i>adj.</i> making or likely to make material gain or profit |
| 42. c__p herbicide | <i>n.</i> a plant that is cultivated in large amounts, particularly for food |
| 43. pathogenic mi_____e | <i>n.</i> a tiny living thing that can only be seen with a microscope and that may cause disease |
| 44. co_____e electricity | <i>v.</i> to spend something, especially fuel, energy, or time, in a large amount |
| 45. b__w beer | <i>v.</i> to make beer or tea by mixing a substance with hot water |
| 46. sup_____ge economic growth | <i>v.</i> to increase the power or energy of something |
| 47. ca_____e customers' hearts | <i>v.</i> to catch a person or an animal and confine them in an area which they cannot escape |
| 48. ov_____ok a street | <i>v.</i> to fail to notice something; to watch over someone; to provide a view from above |
| 49. pr_____y of plants | <i>n.</i> the descendants or offspring of a person, animal, or plant |
| 50. pr_____s improvement | <i>n.</i> a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products |

ANSWERS: 41. profitable, 42. crop, 43. microbe, 44. consume, 45. brew, 46. supercharge, 47. capture, 48. overlook, 49. progeny, 50. process

51. commercial j_t *n.* a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
52. me ____n name *v.* to speak or write about something or someone briefly
53. mic _____isms in his gut *n.* a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope
54. bio _____de by the microorganism *v.* to decay naturally by microorganisms, such as bacteria and fungi
55. hor _____al lines *adj.* parallel to the ground or in a baseline; being at the same level as all members of a group
56. im _____nt a corporate strategy *v.* to put a decision, plan, or system into effect
57. di _____t ancestors *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship
58. mi _____l amount *adj.* tiny in amount; the least possible
59. alien sp _____ip *n.* (especially in science fiction) a spacecraft designed to carry a crew into interstellar space
60. as _____ut in training *n.* a person trained by a space agency to travel outside the Earth's atmosphere
61. co _____t base 10 to base 16 *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
62. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory

ANSWERS: 51. jet, 52. mention, 53. microorganism, 54. biodegrade, 55. horizontal, 56. implement, 57. distant, 58. minimal, 59. spaceship, 60. astronaut, 61. convert, 62. lab

63. pl___t like the Earth *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
64. good source of essential amino a__ds *n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
65. an a__d reaction *n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
66. private j_t *n.* a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
67. industry-sp____ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
68. as____ut mission *n.* a person trained by a space agency to travel outside the Earth's atmosphere
69. app_____ely same *adv.* close to a specific number or time but not exactly that number or time
70. c__t's practices *n.* a small religious group, especially one that is not part of a larger religion and that is regarded as outside the norm; followers of an exclusive system of beliefs and practices
71. pa___t delivery *n.* a small container or envelope that holds one or more items typically used for storing or transporting items like food, medicine, or marketing materials

ANSWERS: 63. planet, 64. acid, 65. acid, 66. jet, 67. specific, 68. astronaut, 69. approximately, 70. cult, 71. packet

72. li_____ck agriculture *n.* farm animals and birds such as cows, sheep, and chickens
73. 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
74. so_____n oil *n.* a legume crop widely cultivated for its nutritious seeds, often ground into meal or pressed into oil for food products, with other uses including animal feed, fuel, and industrial applications
75. ve_____al axis *adj.* upright or perpendicular to a horizontal surface or line
76. designed spe_____lly for men *adv.* only associated with or meant for one thing
77. li_____ck industry *n.* farm animals and birds such as cows, sheep, and chickens
78. pr_____ly affect adults *adv.* mainly
79. re_____e milk packaging into new paper *v.* to sort and collect things to process them and produce valuable materials that can be used again
80. m_r a proper relationship *v.* to damage or spoil the appearance or surface of something
81. nu_____nt medicine *n.* any substance that is essential for the maintenance and growth of living things

ANSWERS: 72. livestock, 73. process, 74. soybean, 75. vertical, 76. specifically, 77. livestock, 78. primarily, 79. recycle, 80. mar, 81. nutrient

82. cu_____te a field
v. to prepare and foster land for growing crops or plants
83. mi_____l effort
adj. tiny in amount; the least possible
84. rai_____st destruction
n. a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
85. pr_____y viral DNA
n. the descendants or offspring of a person, animal, or plant
86. in_____al function
adj. necessary to make a whole complete; essential, or fundamental; combining with something else to form a whole; (noun, of mathematics) a fundamental concept in calculus that represents the area under a curve between two points on a graph
87. fr_____ce oil
n. a pleasant or sweet smell, especially one that is natural to a particular substance
88. hor_____al stripes
adj. parallel to the ground or in a baseline; being at the same level as all members of a group
89. wh__t crop
n. a cereal plant that is the most important kind grown in temperate countries, the grain of which is ground to make flour for bread, pasta, pastry, etc
90. ro_____y explain my idea
adv. approximately but not precisely; with a violent manner
91. beverage fl_____ng
n. a substance or combination of substances used to add taste or aroma to food or drink; a controlled substance used to mask the taste or odor of another substance

ANSWERS: 82. cultivate, 83. minimal, 84. rainforest, 85. progeny, 86. integral, 87. fragrance, 88. horizontal, 89. wheat, 90. roughly, 91. flavoring

92. ge_____hy class *n.* a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth
93. a sp_____ip to survey the moon *n.* (especially in science fiction) a spacecraft designed to carry a crew into interstellar space
94. vi___e of frugality *n.* high moral standards in behavior or attitudes
95. pre-mo___n agricultural society *adj.* of or belonging to the present time or recent times
96. lavender fr_____ce *n.* a pleasant or sweet smell, especially one that is natural to a particular substance
97. su_____n a wellness lifestyle *v.* to supply enough of what somebody or something needs to survive or exist; to accept as valid
98. marine ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
99. ci___s trees *n.* a group of fruits that belong to the citrus family, including oranges, lemons, limes, and grapefruits; the trees that bear these fruits
100. ex___c species *adj.* originating from or characteristic of a foreign country or culture; strikingly unusual, uncommon, or intriguing
101. complex car_____ate *n.* (also carb) any of a class of organic compounds that includes sugars, starch, and cellulose and are a principal source of energy in the diet of animals

ANSWERS: 92. geography, 93. spaceship, 94. virtue, 95. modern, 96. fragrance, 97. sustain, 98. ecosystem, 99. citrus, 100. exotic, 101. carbohydrate

102. exit from a l__p *n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself
103. ben_____al to all countries *adj.* helpful, useful, or sound; promoting or enhancing well-being
104. r__d instrument *n.* a tall, slender-leaved plant that grows in water; a thin strip of wood or metal that vibrates to produce sound in certain musical instruments such as oboe, clarinet, and saxophone
105. es_____al commodities of life *adj.* indispensable; fundamental
106. hyd_____mal vents *adj.* relating to hot water or steam, especially in the Earth's crust, and the thermal energy and chemical reactions that occur as a result
107. on_____d the new employees *v.* to become or make part of a team, group, or system; to install, activate, or begin using a piece of equipment or software; (adjective) included or integrated into a particular system, machine, or device
108. es_____al amino acid *adj.* indispensable; fundamental
109. 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
110. as_____te alcohol with gambling *v.* to mentally connect someone or something with someone or something else

ANSWERS: 102. loop, 103. beneficial, 104. reed, 105. essential, 106. hydrothermal, 107. onboard, 108. essential, 109. sink, 110. associate

111. ad_____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
112. stress pr_____n *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
113. as_____te with people widely *v.* to mentally connect someone or something with someone or something else
114. the ben_____ry of a trust *n.* a person who receives benefits or advantage from something, especially a financial trust or a will
115. acquire a vi____e *n.* high moral standards in behavior or attitudes
116. co_____t milk *n.* the large, hard-shelled seed of a tropical palm, which has a fibrous husk surrounding a single-seeded nut
117. ca_____e a glimpse *v.* to catch a person or an animal and confine them in an area which they cannot escape
118. notable in_____ce *n.* a particular example or single occurrence of something
119. a cold cl_____e *n.* the weather in a particular location averaged over some long period
120. c__t members *n.* a small religious group, especially one that is not part of a larger religion and that is regarded as outside the norm; followers of an exclusive system of beliefs and practices

ANSWERS: 111. addition, 112. protein, 113. associate, 114. beneficiary, 115. virtue, 116. coconut, 117. capture, 118. instance, 119. climate, 120. cult

121. sus_____le alternative fuel *adj.* able to continue or be continued for a long time
122. in___t antenna *n.* any small creature that has six legs and a body divided into three sections
123. intensive agr_____re *n.* the practice or science of cultivating the land or raising stock
124. alien spa_____ft *n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
125. co_____e a large of alcohol *v.* to spend something, especially fuel, energy, or time, in a large amount
126. 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
127. combined ox___e *n.* a chemical compound that contains at least one oxygen atom and one other element
128. la_____y mitigate the issue *adv.* virtually entirely; to a large degree
129. against tr_____on *n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
130. intended pr_____ly for young people *adv.* mainly
131. beginning of the ind_____al revolution *adj.* of or relating to or resulting from industry
132. coconut p___m trees *n.* the inner surface of the hand from the wrist to the base of the fingers; any plant of the family Palmae having an unbranched trunk crowned by large pinnate or palmate leaves

ANSWERS: 121. sustainable, 122. insect, 123. agriculture, 124. spacecraft, 125. consume, 126. carbon, 127. oxide, 128. largely, 129. tradition, 130. primarily, 131. industrial, 132. palm

133. in_____e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
134. de_____nt solution *n.* a substance used for washing or cleaning, especially one that can remove dirt or stains effectively
135. ro_____y speaking *adv.* approximately but not precisely; with a violent manner
136. nu_____us countries *adj.* amounting to a large indefinite number
137. collaborate with co_____ues *n.* one of a group of a coworker, especially in a profession or a business
138. spa_____ft launch *n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
139. the film c__w *n.* a group of people who work together, especially on a ship or airplane
140. a di_____t memory *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship
141. ov_____ok that fact *v.* to fail to notice something; to watch over someone; to provide a view from above
142. a ben_____al result *adj.* helpful, useful, or sound; promoting or enhancing well-being
143. bit of nut_____al yeast *adj.* of or relating to the substance required by the body to maintain health and growth
144. th___e in a society *v.* to grow vigorously; to make steady progress

ANSWERS: 133. involve, 134. detergent, 135. roughly, 136. numerous, 137. colleague, 138. spacecraft, 139. crew, 140. distant, 141. overlook, 142. beneficial, 143. nutritional, 144. thrive

145. su____n a good relationship with him
v. to supply enough of what somebody or something needs to survive or exist; to accept as valid
146. vi____n material
n. a person who has never had sex; (adjective) being used or worked for the first time
147. co____e chemically with another substance
v. to join or merge to form a single thing or group
148. am__o compound
n. compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH₂) that combine to make protein
149. co____t oil
n. the large, hard-shelled seed of a tropical palm, which has a fibrous husk surrounding a single-seeded nut
150. tropical rai____st
n. a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
151. an age of ab____ce
n. a significant amount of something; the situation in which there is too much of something
152. pathogenic mic____ism
n. a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope
153. ex____e a big sigh
v. to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently
154. sp____ic instructions
adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

ANSWERS: 145. sustain, 146. virgin, 147. combine, 148. amino, 149. coconut, 150. rainforest, 151. abundance, 152. microorganism, 153. exhale, 154. specific

155. de____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
156. lingual di_____ty *n.* the quality or fact of many different types of things or people being included in something; a range of different things or people
157. m_r the reputation *v.* to damage or spoil the appearance or surface of something
158. natural fl_____ng *n.* a substance or combination of substances used to add taste or aroma to food or drink; a controlled substance used to mask the taste or odor of another substance
159. lo___e a tumor *v.* to specify or determine the exact position of someone or something
160. so_____n production *n.* a legume crop widely cultivated for its nutritious seeds, often ground into meal or pressed into oil for food products, with other uses including animal feed, fuel, and industrial applications
161. the great di_____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
162. n__r atmosphere *adj.* a type of film or literature that emphasizes crime, darkness, and moral ambiguity, often using shadowy, low-light cinematography or atmospheric prose; meaning "black" or "dark" in French

ANSWERS: 155. develop, 156. diversity, 157. mar, 158. flavoring, 159. locate, 160. soybean, 161. discovery, 162. noir

163. principles of sus_____le
development *adj.* able to continue or be continued for a long time
164. es_____te a fair value *v.* to guess or calculate the cost, size, value, etc. of something
165. im_____nt security measures *v.* to put a decision, plan, or system into effect
166. co_____t fat into energy *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
167. status q_o politician *n.* the existing state or condition of something, especially in relation to a particular situation or issue
168. es_____te this chicken to weigh three pounds *v.* to guess or calculate the cost, size, value, etc. of something
169. ind_____al alcohol *adj.* of or relating to or resulting from industry
170. the p__m side of the forearm *n.* the inner surface of the hand from the wrist to the base of the fingers; any plant of the family Palmae having an unbranched trunk crowned by large pinnate or palmate leaves
171. a nu_____nt for hair *n.* any substance that is essential for the maintenance and growth of living things
172. hyd_____mal chemistry *adj.* relating to hot water or steam, especially in the Earth's crust, and the thermal energy and chemical reactions that occur as a result
173. a young bud of r__d *n.* a tall, slender-leaved plant that grows in water; a thin strip of wood or metal that vibrates to produce sound in certain musical instruments such as oboe, clarinet, and saxophone

ANSWERS: 163. sustainable, 164. estimate, 165. implement, 166. convert, 167. quo, 168. estimate, 169. industrial, 170. palm, 171. nutrient, 172. hydrothermal, 173. reed

174. chemical ad____on *n.* the act or process of adding something to something else; the process of adding numbers
175. cu_____te relationships *v.* to prepare and foster land for growing crops or plants
176. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
177. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
178. for in_____ce *n.* a particular example or single occurrence of something
179. silver ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
180. the di_____ty policy of the university *n.* the quality or fact of many different types of things or people being included in something; a range of different things or people
181. as nu_____us as the sand *adj.* amounting to a large indefinite number
182. biomass f__l *n.* a substance that is typically burned to generate heat or energy
183. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
184. positive feedback l__p *n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself

ANSWERS: 174. addition, 175. cultivate, 176. involve, 177. discovery, 178. instance, 179. oxide, 180. diversity, 181. numerous, 182. fuel, 183. emit, 184. loop

185. short du____on *n.* the length of time something lasts or continues
186. app_____ely 3 feet long *adv.* close to a specific number or time but not exactly that number or time
187. v__t tube *n.* a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion
188. lo___e a missing pet *v.* to specify or determine the exact position of someone or something
189. re_____e the cardboard boxes *v.* to sort and collect things to process them and produce valuable materials that can be used again
190. sup_____ge the battery *v.* to increase the power or energy of something
191. a tr_____on of a culture *n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
192. on_____d computer *v.* to become or make part of a team, group, or system; to install, activate, or begin using a piece of equipment or software; (adjective) included or integrated into a particular system, machine, or device
193. economic ge_____hy *n.* a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth
194. the c__w of a fishing boat *n.* a group of people who work together, especially on a ship or airplane

ANSWERS: 185. duration, 186. approximately, 187. vent, 188. locate, 189. recycle, 190. supercharge, 191. tradition, 192. onboard, 193. geography, 194. crew

195. ve____al takeoff *adj.* upright or perpendicular to a horizontal surface or line
196. th___e on pressure *v.* to grow vigorously; to make steady progress
197. save the pl___t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
198. hy____en gas *n.* the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
199. 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
200. 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
201. organic agr____re *n.* the practice or science of cultivating the land or raising stock
202. smokeless f__l *n.* a substance that is typically burned to generate heat or energy
203. effects of cl____e change *n.* the weather in a particular location averaged over some long period
204. ex___e cigarette smoke *v.* to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently

ANSWERS: 195. vertical, 196. thrive, 197. planet, 198. hydrogen, 199. carbon, 200. greenhouse, 201. agriculture, 202. fuel, 203. climate, 204. exhale

Session 3: Fill in the Blanks

1. The government should do more to support environmentally _____ agriculture.

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

2. Hydrogen and oxygen _____ to form water.

v. to join or merge to form a single thing or group

3. The Prohibition amendment made bootlegging _____.

adj. making or likely to make material gain or profit

4. The military incarcerated him for the _____ of the war.

n. the length of time something lasts or continues

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

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

6. Mercury is the closest _____ to the sun.

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

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

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

8. The company has been successful in maintaining the status _____.

n. the existing state or condition of something, especially in relation to a particular situation or issue

ANSWERS: 1. sustainable, 2. combine, 3. profitable, 4. duration, 5. emits, 6. planet, 7. sustain, 8. quo

9. 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
10. They launched a crewless _____ into space.
n. (especially in science fiction) a spacecraft designed to carry a crew into interstellar space
11. Five miles is _____ similar to eight kilometers.
adv. approximately but not precisely; with a violent manner
12. He was impressed by the range and _____ of the collection.
n. the quality or fact of many different types of things or people being included in something; a range of different things or people
13. This trail takes _____ 2.5 hours.
adv. close to a specific number or time but not exactly that number or time
14. She was the sole _____ of her grandfather's estate.
n. a person who receives benefits or advantage from something, especially a financial trust or a will
15. All peaceful cooperation is based _____ on mutual trust.
adv. mainly
16. The farmer harvested his _____ crop and took it to market.
n. a legume crop widely cultivated for its nutritious seeds, often ground into meal or pressed into oil for food products, with other uses including animal feed, fuel, and industrial applications

ANSWERS: 9. carbon, 10. spaceship, 11. roughly, 12. diversity, 13. approximately, 14. beneficiary, 15. primarily, 16. soybean

17. 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
18. Her research team made an important _____.
- n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
19. Effective communication is an _____ part of any successful team.
- adj.* necessary to make a whole complete; essential, or fundamental; combining with something else to form a whole; (noun, of mathematics) a fundamental concept in calculus that represents the area under a curve between two points on a graph
20. This _____ is a producer of respiratory disease.
- n.* a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope
21. The film _____ genre is known for its dark and brooding atmosphere.
- adj.* a type of film or literature that emphasizes crime, darkness, and moral ambiguity, often using shadowy, low-light cinematography or atmospheric prose; meaning "black" or "dark" in French
22. Laughing is _____ to our health.
- adj.* helpful, useful, or sound; promoting or enhancing well-being
23. The company's plastic products are easily _____ thanks to a unique manufacturing process.
- v.* to decay naturally by microorganisms, such as bacteria and fungi

ANSWERS: 17. greenhouse, 18. discovery, 19. integral, 20. microorganism, 21. noir, 22. beneficial, 23. biodegraded

24. We cannot _____ an opportunity for great success.

- v.* to fail to notice something; to watch over someone; to provide a view from above

25. Within a few years, no _____ forests will remain.

- n.* a person who has never had sex; (adjective) being used or worked for the first time

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

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

27. In _____ private corporations provide healthcare services.

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

28. The recipe calls for adding a dash of vanilla _____ to the batter.

- n.* a substance or combination of substances used to add taste or aroma to food or drink; a controlled substance used to mask the taste or odor of another substance

29. This high-performance camera is compact enough to fit in the ___ of your hand.

- n.* the inner surface of the hand from the wrist to the base of the fingers; any plant of the family Palmae having an unbranched trunk crowned by large pinnate or palmate leaves

30. Foods high in _____ include bread, pasta, and rice.

- n.* (also carb) any of a class of organic compounds that includes sugars, starch, and cellulose and are a principal source of energy in the diet of animals

ANSWERS: 24. overlook, 25. virgin, 26. jet, 27. addition, 28. flavoring, 29. palm, 30. carbohydrates

31. It is a _____ in many families to have a big Thanksgiving dinner with all their relatives.
- n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
32. I need to buy a _____ of biscuits from the store.
- n.* a small container or envelope that holds one or more items typically used for storing or transporting items like food, medicine, or marketing materials
33. The Prime Minister will pay a courtesy visit to the Nobel laureate's ____.
- n.* a workplace for the conduct of scientific research; a laboratory
34. The _____ scarcity most severely impacted the manufacturing sector
- n.* a substance that is typically burned to generate heat or energy
35. A healthy farm provides an _____ of food.
- n.* a significant amount of something; the situation in which there is too much of something
36. University is a great place to _____ our minds and expertise.
- v.* to prepare and foster land for growing crops or plants
37. She had many good _____ and few faults.
- n.* high moral standards in behavior or attitudes
38. The sun set over the crest of _____ hills.
- adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship

ANSWERS: 31. tradition, 32. packet, 33. lab, 34. fuel, 35. abundance, 36. cultivate, 37. virtues, 38. distant

39. The _____ of the roses filled the air and brought a smile to my face.

n. a pleasant or sweet smell, especially one that is natural to a particular substance

40. These _____ are more prevalent above a certain latitude.

n. any small creature that has six legs and a body divided into three sections

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

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

42. The scientist conducted a study that provided _____ details about the species' behavior.

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

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

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

44. 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

45. A smaller car will _____ less fuel.

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

46. The royal family has much _____ scattered across the globe.

n. the descendants or offspring of a person, animal, or plant

ANSWERS: 39. fragrance, 40. insects, 41. ecosystem, 42. specific, 43. manufactured, 44. capture, 45. consume, 46. progeny

47. 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
48. _____ and weather have an impact on every part of our lifestyles.
n. the weather in a particular location averaged over some long period
49. This ad campaign is aimed _____ at young women.
adv. only associated with or meant for one thing
50. 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
51. The body needs a certain amount of _____ to build and repair tissues.
n. a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
52. 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
53. The _____ leader promised his followers that they would achieve enlightenment if they followed his teachings.
n. a small religious group, especially one that is not part of a larger religion and that is regarded as outside the norm; followers of an exclusive system of beliefs and practices

ANSWERS: 47. mentioned, 48. Climate, 49. specifically, 50. process, 51. protein, 52. develop, 53. cult

54. The robot can accurately _____ construction material.

- v.* to specify or determine the exact position of someone or something

55. 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

56. The passengers were instructed to _____ the aircraft as quickly as possible so that the flight could depart on time.

- v.* to become or make part of a team, group, or system; to install, activate, or begin using a piece of equipment or software; (adjective) included or integrated into a particular system, machine, or device

57. These descriptions are based on a number of _____ assumptions.

- adj.* amounting to a large indefinite number

58. I love trying _____ foods from different cultures.

- adj.* originating from or characteristic of a foreign country or culture; strikingly unusual, uncommon, or intriguing

59. The scratches on the car _____ its otherwise perfect appearance.

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

60. During pregnancy, the stomach generates less _____ than usual.

- n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials

61. The shuttle _____ trained for months before embarking on the space mission.

- n.* a person trained by a space agency to travel outside the Earth's atmosphere

ANSWERS: 54. locate, 55. sink, 56. onboard, 57. numerous, 58. exotic, 59. marred, 60. acid, 61. astronaut

62. The human-crewed _____ successfully landed on the moon, fulfilling its mission.
- n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
63. The majority of consumers _____ this brand with quality.
- v.* to mentally connect someone or something with someone or something else
64. The ladder leaned against the _____ surface of the building.
- adj.* upright or perpendicular to a horizontal surface or line
65. Their headquarters are in a _____ skyscraper.
- adj.* of or belonging to the present time or recent times
66. These articles cite five _____ of climate change.
- n.* a particular example or single occurrence of something
67. 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
68. They used fast-acting _____ on the flowers in the flower beds.
- n.* any substance that is essential for the maintenance and growth of living things
69. _____ is the foundation of our economy.
- n.* the practice or science of cultivating the land or raising stock
70. He cracked open a _____ to drink the milk.
- n.* the large, hard-shelled seed of a tropical palm, which has a fibrous husk surrounding a single-seeded nut

ANSWERS: 62. spacecraft, 63. associate, 64. vertical, 65. modern, 66. instances, 67. geography, 68. nutrients, 69. Agriculture, 70. coconut

71. Sow early for an early _____.

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

72. The ship's _____ worked hard to repair the damaged sails before the next storm hit.

n. a group of people who work together, especially on a ship or airplane

73. _____ fruits like oranges and lemons are high in vitamin C.

n. a group of fruits that belong to the citrus family, including oranges, lemons, limes, and grapefruits; the trees that bear these fruits

74. I use environmentally friendly _____ when I wash my clothes and dishes.

n. a substance used for washing or cleaning, especially one that can remove dirt or stains effectively

75. The government promised to _____ a new system to control the financial crisis.

v. to put a decision, plan, or system into effect

76. He took a deep breath and slowly began to _____.

v. to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently

77. Airplanes need _____ tails to improve stability.

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

78. The farmer grew _____ on his land.

n. a cereal plant that is the most important kind grown in temperate countries, the grain of which is ground to make flour for bread, pasta, pastry, etc

ANSWERS: 71. crop, 72. crew, 73. Citrus, 74. detergent, 75. implement, 76. exhale, 77. horizontal, 78. wheat

79. _____ design has become more focused on human nature aspect than ever before.
adj. of or relating to or resulting from industry
80. The blood's red coloring comes from iron _____.
n. a chemical compound that contains at least one oxygen atom and one other element
81. The _____ and the oxygen react and then form water.
n. the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
82. I want to _____ my sadness into strength.
v. to have a talk with someone; (adjective) reversed in order, relation, or action
83. The destruction of the _____ is a ticking time bomb for the Earth.
n. a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
84. We largely _____ the circuit board of cell phones because they contain a lot of valuable metals.
v. to sort and collect things to process them and produce valuable materials that can be used again
85. _____ thrive on the surface of the human skin.
n. a tiny living thing that can only be seen with a microscope and that may cause disease
86. The process was carried out at _____ cost.
adj. tiny in amount; the least possible

ANSWERS: 79. Industrial, 80. oxide, 81. hydrogen, 82. convert, 83. rainforest, 84. recycle, 85. Microbes, 86. minimal

87. The investigation _____ several government agencies and is expected to take several months.
- v.* to include or affect someone or something as a necessary part of something else
88. He gave _____ to his anger by playing the guitar.
- n.* a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion
89. Without investment, a business cannot _____.
- v.* to grow vigorously; to make steady progress
90. The _____ activity in this area creates a unique environment for marine creatures.
- adj.* relating to hot water or steam, especially in the Earth's crust, and the thermal energy and chemical reactions that occur as a result
91. Many people in this city use the _____ railway for transportation.
- n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself
92. We _____ the season's total trade deficit at \$50 billion.
- v.* to guess or calculate the cost, size, value, etc. of something
93. These birds can only _____ in temperate climates.
- v.* to live or exist despite a dangerous event or period
94. Trial and error is an _____ part of education.
- adj.* indispensable; fundamental

ANSWERS: 87. involves, 88. vent, 89. thrive, 90. hydrothermal, 91. loop, 92. estimated, 93. survive, 94. essential

95. The _____ value of the food should be clearly labeled on the packaging.
adj. of or relating to the substance required by the body to maintain health and growth
96. _____ feed is made from fodder crops.
n. farm animals and birds such as cows, sheep, and chickens
97. They _____ the engine to get more power.
v. to increase the power or energy of something
98. The _____ in the wind instrument needs to be replaced.
n. a tall, slender-leaved plant that grows in water; a thin strip of wood or metal that vibrates to produce sound in certain musical instruments such as oboe, clarinet, and saxophone
99. I am going to _____ some coffee this morning.
v. to make beer or tea by mixing a substance with hot water
100. Nevada is _____ a desert state.
adv. virtually entirely; to a large degree
101. This company was granted a patent for its _____ resin manufacturing process.
n. compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH₂) that combine to make protein
102. I decided to seek counseling on the advice of my _____.
n. one of a group of a coworker, especially in a profession or a business

ANSWERS: 95. nutritional, 96. Livestock, 97. supercharged, 98. reed, 99. brew, 100. largely, 101. amino, 102. colleague