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Vocabulary Builder Reference from...

Martin Hanczyc: The line between life and not-life |

TED Talk

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etween_life_and_not_life](https://www.ted.com/talks/martin_hanczyc_the_line_between_life_and_not_life)

All Words

IMPORTANT

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Session 1: Word List

historic

adj. famous or significant in history, or potentially so

synonym: memorable, momentous, historical

(1) **historic** accomplishment, (2) achieve the **historic** feat

The Chinese people have accomplished several **historic** feats.

divide

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

synonym: separate, disconnect, split

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

Can you **divide** 123321 by eleven?

complexity

n. the state or quality of being complicated or intricate and difficult to understand

synonym: intricacy, sophistication, elaboration

(1) cognitive **complexity**, (2) **complexity** theory

The project's **complexity** made it difficult for the team to complete it on time.

crystal

n. a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica

synonym : quartz

(1) liquid **crystal**, (2) **crystal** analyses

A vast **crystal** chandelier glittered brightly above us.

blur

n. a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision

synonym : smudge, smear, fuzz

(1) **blur** image, (2) motion **blur**

The camera's focus was off, and the image was a **blur** of colors and shapes.

distinction

n. a difference or contrast between similar things or people

synonym : eminence, noteworthiness, excellence

(1) important **distinction**, (2) draw a **distinction**

I can't see any **distinction** between these two concepts.

continuum

n. a series of similar items in which no part or portion is distinct or distinguishable from adjacent parts

synonym : continuation, continuity

(1) a space-time **continuum**, (2) the **continuum** of events

Our life is a **continuum** of experience in which events pass from the future through the present to the past.

virus

n. a tiny infectious organic material that causes disease in people, animals, and plants

synonym : bacterium, germ, ailment

(1) spread of the **virus**, (2) a strain of **virus**

An infected person in the hospital will likely pass the **virus** to others.

simplistic

adj. oversimplified or lacking in complexity or depth; characterized by an attempt to explain something complex or multifaceted with overly vague or simple terms

synonym : basic, uncomplicated, elementary

(1) **simplistic** approach, (2) **simplistic** design

The politician's solution to the problem was too **simplistic** to solve the underlying issue.

satisfy

v. to make somebody pleased by giving them what they want or need

synonym: please, amuse, meet

(1) **satisfy** a desire, (2) **satisfy** a user's needs

Did this response **satisfy** your request?

requirement

n. something that is needed or wanted

synonym: prerequisite, provision, condition

(1) meet **requirement**, (2) school **requirement**

What is the entry **requirement** for this course?

characteristic

n. a typical feature or quality that can identify, tell apart, or describe something or somebody

synonym: feature, quality, attribute

(1) stripes **characteristic** of the zebra, (2) my friend's **characteristic** laugh

Bananas have their **characteristic** taste and odor.

parasite

n. an organism that lives on or in another organism and benefits by deriving nutrients at the other's expense

synonym: hitchhiker, leech, saprophyte

(1) blood-sucking **parasite**, (2) **parasite** disease

Tapeworms are **parasites** that live in the intestines of humans and animals.

reproduce

v. to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process

synonym: duplicate, breed, imitate

(1) **reproduce** the painting, (2) **reproduce** by myself

By dividing and creating copies of themselves, bacteria **reproduce**.

evolve

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

synonym: develop, mature, grow

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

Eyeless fish **evolved** in dark caves.

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.

spectrum

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

synonym: range, scale, spread

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

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

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.

laboratory

n. a workplace for doing scientific research or teaching science; a lab

synonym: lab, workshop, testing room

(1) **laboratory** accident, (2) anthropology **laboratory**

Animal protection groups call for an end to animal testing in a **laboratory**.

ingredient

n. one of the things used to make something, especially one of the foods used to make a particular dish

synonym: element, component

(1) secret **ingredients**, (2) compound the **ingredients**

Greed is the primary **ingredient** in the making of criminals.

structure

n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

synonym: construction, architecture, establishment

(1) the **structure** of a machine, (2) **structure** and function of the brain

The organizational **structure** of start-ups is often flat and straightforward.

artificial

adj. not natural and made by human beings; not real but produced to resemble something

synonym: synthetic, man-made, manufactured

(1) **artificial** flowers, (2) **artificial** environment

The **artificial** intelligence system has revolutionized the way we live and work.

distinguish

v. to notice or understand the difference between two people or things

synonym: determine, differentiate, characterize

(1) **distinguish** these two things, (2) **distinguish** man from the other animals

This study **distinguished** four different ways to run a business.

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**.

metabolism

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

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

Better sleep leads to increased **metabolism**.

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.

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.

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.

inherit

v. to receive money, property, or a title from someone after they have died

synonym: obtain, gain, acquire

(1) **inherit** estate, (2) **inherit** ancestral property

After his death, his sons **inherited** his business.

humming

adj. producing a continuous, low, vibrating sound like that of the bee

synonym: buzzing, droning, vibrating

(1) **humming** sound, (2) **humming** bird

The **humming** of the bees filled the air as she walked through the garden.

genome

n. the complete set or sequence of genes of a human, animal, plant, or other living things

(1) sequencing of the human **genome**, (2) **genome** analyses

The human **genome** contains approximately three billion chemical base pairs.

offspring

n. descendant; any immature animal or plant

synonym: children, descendants, heirs

(1) female **offspring**, (2) produce **offspring**

How many **offspring** does the average lion have?

replicate

v. to make an exact copy of something; to repeat a process or experiment to confirm the results

synonym: duplicate, imitate, reproduce

(1) **replicate** the cell, (2) **replicate** data

The experiment was **replicated** several times to ensure accuracy.

lifelike

adj. resembling or appearing similar to something alive or real, often realistically or vividly; convincing or authentic in appearance or behavior

synonym: realistic, naturalistic, vivid

(1) **lifelike** painting, (2) **lifelike** animation

The artist created a **lifelike** sculpture of a famous politician for the town square.

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**.

prototype

n. a first or preliminary example of something such as a device or vehicle from which other forms are developed

synonym: mock-up, precursor, model

(1) complete a **prototype** product, (2) early **prototype**
The flying car is presently in the **prototype** stage.

primitive

adj. of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style

synonym: elementary, naive, rudimentary

(1) **primitive** society, (2) artifact of a **primitive** humankind
The industry in this country is still **primitive**.

molecule

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

synonym: particle, element, atom

(1) small **molecules**, (2) **molecule** behavior
The shape of the DNA **molecule** is a double helix.

drastic

adj. radical and extreme; likely to have a significant or far-reaching impact

synonym: extreme, fierce, radical

(1) **drastic** measures, (2) make **drastic** revision
The global community is undergoing **drastic** changes at present.

reduction

n. a decrease in size, amount, or degree

synonym: diminution, decrease, cutback

(1) **reduction** strategy, (2) a gradual **reduction**
The **reduction** in carbon emissions has been significant since the implementation of the new policy.

quotation

n. a group of words taken from a text or speech and repeated by someone other than the original author or speaker

synonym: excerpt, passage, quote

(1) double **quotation** marks, (2) take a **quotation**
He included a **quotation** from the book in his essay.

synthetic

adj. made by combining chemical substances as opposed to being naturally occurring

synonym: artificial, manufactured, fabricated

(1) **synthetic** fiber, (2) **synthetic** fertilizer

Synthetic diamonds play an essential role as machine tool blades.

biology

n. the scientific study of life and the natural processes of living things

(1) evolutionary **biology**, (2) cell and molecular **biology**

In junior high school, we had to dissect a frog in **biology** class.

synthesis

n. the combination of components or elements to form a more complex whole; the creation of something new through combining parts or elements

synonym: combination, integration, compound

(1) **synthesis** of ammonia, (2) protein **synthesis** inhibitor

The chemical **synthesis** of the new drug was a breakthrough in medical research.

sensational

adj. extremely or remarkably good; causing great public interest or excitement

synonym: amazing, incredible, phenomenal

(1) **sensational** crime, (2) **sensational** news

The performance was **sensational**, with standing ovations throughout.

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**.

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.

probable

adj. likely to happen or likely to be true

synonym: likely, possible, potential

(1) **probable** outcome, (2) **probable** cause of a fire

It seems **probable** that he has forgotten our scheduled meeting.

evolution

n. a gradual process of transformation of living things

synonym: elaboration, expansion, transition

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

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

dawn

n. the time of day when the sun's light starts to show in the sky

synonym: daybreak, sunrise, advent

(1) the wan light of **dawn**, (2) crack of **dawn**

Missile assaults on the capital continued around **dawn**.

consist

v. to be composed or made up of

synonym: lie in, comprise, exist

(1) **consist** mainly of cells, (2) **consist** only in knowing facts

This examination **consists** of five problems to solve.

intermediate

adj. situated between two locations, things, states, etc.; around the middle of a scale of evaluation

synonym: middle, medium, central

(1) **intermediate** sanction, (2) **intermediate** level

Purple is **intermediate** between blue and red.

inorganic

adj. being or consisting of nonliving stuff; chemical compounds that contain no or only trace amounts of carbon

(1) **inorganic** acid, (2) **inorganic** nutrition

Inorganic substances include rocks and minerals.

organic

adj. of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals

synonym : biological

(1) **organic** soils, (2) eat **organic** food

The kidney is an **organic** component of the body.

possess

v. to have or own something or to have as an attribute, knowledge, skill, etc.

synonym : keep, maintain, own

(1) **possess** a basic knowledge, (2) **possess** divine powers

He **possesses** a good sense of humor.

rudimentary

adj. relating to basic facts or principles; fundamental

synonym : essential, fundamental, elementary

(1) a **rudimentary** plant, (2) **rudimentary** understanding

He has only a **rudimentary** knowledge of this topic.

attribute

v. to say or regard that something is the result of a particular thing; (noun) a quality or feature that someone or something possesses;

synonym : ascribe, blame, (noun) feature

(1) **attribute** the change to their marriage, (2) **attribute** directly to sales

He **attributes** the disappointing results to the economic downturn.

discuss

v. to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic

synonym : talk about, converse, debate

(1) **discuss** options, (2) **discuss** solutions

We need to **discuss** the next steps for the project during our meeting tomorrow.

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.

evolutionary

adj. relating to or denoting how living things develop or change from earlier forms

synonym: developmental, mutative, transformative

(1) ecology and **evolutionary** biology, (2) the **evolutionary** process

Evolutionary algorithms can find ways to optimize that humans do not anticipate.

assembly

n. a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country

synonym: crowd, gathering, mass

(1) **assembly** line, (2) **assembly** hall

This company's **assembly** plant is an enormous facility.

tube

n. a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape

synonym: pipe, hose, duct

(1) a capillary **tube**, (2) a glass **tube**

The **tube** train was packed with commuters during rush hour.

membrane

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

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

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

morphology

n. the study of the form and structure of plants, animals, and other organisms; the study of the alteration of word forms as they change from one part of speech to another

synonym : structure, form, anatomy

(1) **morphology** of a language, (2) cellular **morphology**

The **morphology** of rocks can reveal clues about their geological history.

functional

adj. designed for or capable of a particular activity, purpose, or task; practical or ready for use or service

synonym : applicable, practical, usable

(1) field of **functional** medicine, (2) **functional** deafness

The mobile phone was still **functional** even after being dropped.

likewise

adv. in the same way

synonym : alike, correspondingly, similarly

(1) do **likewise**, (2) please revise **likewise**

He is tall and **likewise** strong.

droplet

n. a small drop of liquid

synonym : bead, drip, dewdrop

(1) **droplet** size, (2) **droplet** formation

A single **droplet** of water can reflect the entire world upside down.

organism

n. a tiny living thing

synonym : being, creature

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

A diversified plant species generally enhances beneficial

organism populations.

architecture

n. the art and science of designing and constructing buildings

synonym: design, structure, layout

(1) **architecture** design, (2) classic **architecture**

The city is known for its impressive **architecture** and beautiful old buildings.

aspect

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

synonym: characteristic, element, factor

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

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

clay

n. a natural, earthy material that is made up of very small particles of minerals and can be molded when wet and then fired to produce ceramics

synonym: ceramics, pottery, dirt

(1) **clay** animation, (2) soft **clay** ground

The sculptor carefully molded the **clay** into the desired shape.

montmorillonite

n. a soft clay mineral belonging to the group of smectite minerals, named after the town of Montmorillon in France, where it was first discovered, known for its ability to swell and retain water, as well as its use in ceramics and the oil drilling industry

synonym: clay, bentonite, smectite

(1) **montmorillonite** clay, (2) sodium **montmorillonite**

The **montmorillonite** content in the soil sample was analyzed to assess its suitability for agricultural use.

relative

adj. considered and evaluated through comparison with something else

synonym: comparative, proximate, congeneric

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

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

organ

n. a part of the body of an animal or plant that has a particular purpose and performs a specific job

synonym: function, structure

(1) **organ** bleeding, (2) damage to internal **organs**

These infections have the potential to impact practically every **organ** system.

formation

n. the way something is created naturally or the way it has been arranged

synonym: establishment, organization, creation

(1) a rock **formation**, (2) **formation** flight

Character **formation** is one of the goals of education.

boundary

n. a real or imaginary line that marks the limit or extent of something and separates it from other things or places

synonym: border, frontier, limitation

(1) geographical **boundary**, (2) the **boundary** between reality and fantasy

He wandered the **boundary** between life and death by gunfire.

liquid

n. a substance, such as water or oil that flows freely and is neither a solid nor a gas

synonym: fluid

(1) colorless **liquid**, (2) hazardous **liquid**

The sponge takes up the **liquid** well.

micrograph

n. a photograph or image that has been taken through a microscope or magnifying lens, typically used for scientific or medical purposes

synonym: microphotograph

(1) **micrograph** image, (2) high-resolution **micrograph**

The **micrograph** of the cell shows detailed structures that the naked eye cannot see.

attach

v. to fasten, join, or connect one thing to another

synonym: fix, fasten, bind

(1) **attach** firmly, (2) **attach** a file to an e-mail

He does not **attach** importance to these rumors.

confuse

v. to mistake one thing for another; to make somebody hard to understand

synonym: confound, obscure, disorient

(1) **confuse** the listener, (2) **confuse** fantasy with reality

Her remarks **confused** the debate.

lifeless

adj. without life; dead

synonym: inanimate, inert, motionless

(1) fall **lifeless**, (2) a **lifeless** corpse

The plant had a **lifeless** appearance, indicating that it was not getting enough water.

harvest

n. yields of plants in a single growing season; the period of the year when gathering occurs on a farm

synonym: crop, reaping, yield

(1) a scanty **harvest**, (2) reap a **harvest**

During **harvest**, farmers are incredibly busy.

dynamic

adj. having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)

synonym: energetic, active, vital

(1) a **dynamic** market, (2) **dynamic** person

The sprinter has a **dynamic** way of running.

moving

adj. causing strong emotions or feelings, especially sadness or sympathy

synonym: emotional, poignant, touching

(1) **moving** experience, (2) **moving** ceremony
His **moving** speech about his struggles with addiction brought tears to the audience's eyes.

movement

n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

synonym: motion, progression, action

(1) a circular **movement**, (2) **movement** of troops
The **movement** of the dancers on stage was graceful and elegant.

explore

v. to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it

synonym: analyze, delve into, examine

(1) **explore** the world, (2) **explore** our options
The management must **explore** strategies to increase office security.

remodel

v. to change the structure or form of something

synonym: refurbish, remake, revamp

(1) **remodel** the car, (2) **remodel** portfolio
We are **remodeling** these rooms now.

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.

encounter

v. to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly

synonym : meet, run into, come across

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

I'm prepared to **encounter** challenges throughout this adventure.

reconfigure

v. to change the configuration or arrangement of something, often to improve its performance or functionality

synonym : reshape, restructure, realign

(1) **reconfigure** the network, (2) **reconfigure** the operating system

We need to **reconfigure** the office layout to use the space better.

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.

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.

brain

n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling

synonym : intellect, mind, encephalon

(1) basic **brain** function, (2) permanent **brain** damage

X-rays revealed a small tumor in his **brain**.

neural

adj. of or relating to a nerve or the nervous system that includes the brain

synonym : sensory, neuronic, nervous

(1) **neural** stem cells, (2) **neural** networks in AI
There was a disturbance of **neural** function.

sack

v. to remove or dismiss someone from a position or place;
(noun) a large bag made of strong, rough material, such as burlap, that is used for storing or carrying things

synonym: discharge, remove, (noun) bag

(1) **sack** an employee, (2) a sleep **sack**

He was **sacked** from his job for stealing company property.

individual

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

synonym: person, being, self

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

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

interpret

v. to explain or assign the meaning of information, actions, etc.

synonym: decode, decipher, analyze

(1) **interpret** a graph, (2) **interpret** the question

Different people might **interpret** this news differently.

population

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

synonym: people, inhabitants, folk

(1) **population** change, (2) labor **population**

In just four years, the **population** has doubled.

chemistry

n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions

(1) professor of **chemistry**, (2) the **chemistry** of soil

He is familiar with **chemistry** and biology.

activate

v. make something start working, more active or dynamic

synonym: mobilize, stimulate, initiate

(1) **activate** a receptor, (2) **activate** a motor

You must **activate** the software with a 16-digit key before you can use it.

vibrate

v. to move or cause anything to move fast and in small increments from side to side

synonym: oscillate, convulse, jerk

(1) **vibrate** at a regular frequency, (2) **vibrate** with anger

During the flight, the wings of the plane **vibrate**.

fuse

n. a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

synonym: (verb) melt, (verb) blend

(1) **fuse** blows, (2) **fuse** with one another

He has a short **fuse**.

blob

n. a small amount or drop of a thick liquid or sticky substance

synonym: chunk, lump, hunk

(1) a big **blob** of yellow, (2) a **blob** of jelly

A **blob** of ink fell on the floor.

bunch

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

synonym: group, assemblage, bundle

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

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

fused

adj. joined together or combined into one; blended or integrated in a way that creates a new entity

synonym: merged, blended, united

(1) **fused** glass, (2) **fused** bones

The **fused** wires in the electrical circuit caused a power outage.

hybrid

adj. composed of different elements or mixed characters
synonym : blended, mixed, combined

(1) new **hybrid** system, (2) an interspecific **hybrid**

The mule is a **hybrid** between a male donkey and a female horse.

emergence

n. the process or fact of coming into existence or becoming apparent

synonym : appearance, outgrowth, rise

(1) **emergence** as a national leader, (2) re- **emergence** of rampant inflation

The **emergence** of a new virus can cause concern for public health.

origin

n. the first existence or beginning of something

synonym : root, source, ancestor

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

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

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.

accessible

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

synonym : affordable, available, unrestricted

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

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

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.

compound

n. an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements

synonym: combination, mixture, blend

(1) aquatic **compound**, (2) harmful **compound**

Common salt is a sodium and chlorine **compound**.

mixture

n. a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties

synonym: blend, amalgam, concoction

(1) **mixture** of emotions, (2) perfect **mixture**

The paint was a **mixture** of different pigments to achieve the desired color.

controllable

adj. able to be controlled or directed

synonym: manageable, governable, submissive

(1) computer- **controllable**, (2) **controllable** aircraft

The new software is much more **controllable** and user-friendly.

reaction

n. a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others

synonym: response, reply, answer

(1) chemical **reaction**, (2) trigger a **reaction**

There was a chemical **reaction** of the lime with the groundwater.

diverse

adj. including numerous categories of individuals or entities; various

synonym: manifold, various, myriad

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

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

primordial

adj. existing from the beginning of time or the start of a particular process; relating to the earliest stage of the universe

synonym : ancient, original, primary

(1) **primordial** forms of life, (2) **primordial** gas

The discovery of the **primordial** soup was a crucial step in understanding the origins of life on Earth.

ooze

v. to flow or seep out slowly, often in a thick, viscous manner; to exude or emit slowly and steadily

synonym : flow, seep, drip

(1) **ooze** from the speakers, (2) **ooze** with confidence

The wound on his leg continued to **ooze** blood even after he applied pressure.

characterize

v. to describe the distinctive nature or features of someone or something; to be a distinguishing feature of

synonym : describe, depict, portray

(1) **characterize** the relationship, (2) **characterize** his work

Their love of discovery and exploration often **characterizes** the adventurous spirit of the explorer.

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.

tar

n. a thick, sticky substance that is dark in color and is commonly used for road surfacing or as a material for roofing; a common byproduct of burning coal or wood

synonym : asphalt, pitch, bitumen

(1) **tar** residue, (2) **tar** component

The road workers spread **tar** over the cracks in the pavement to prevent water and ice from causing further damage.

contrast

v. to put in opposition to show or emphasize differences
synonym: differ, vary, counterpoint

(1) **contrast** with a decade ago, (2) **contrast** two things
It's intriguing to compare and **contrast** the two authors.

bond

n. a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money

synonym: bind, adhesion, attachment

(1) **bond** as a family, (2) global **bond** market
They had formed a friendship **bond**.

caramel

n. a sweet, dark brown, sticky substance made by heating sugar or syrup until it melts and then cooling it quickly

synonym: toffee, dulce de leche, butterscotch

(1) **caramel** candy, (2) **caramel** topping

The **caramel** sauce on the ice cream was the perfect finishing touch.

unregulated

adj. not subject to official rules, procedures, or oversight; not controlled or supervised by a governing authority or system

synonym: uncontrolled, unmonitored, unbridled

(1) **unregulated** market, (2) **unregulated** off-shore fishing
Without regulations, the industry is **unregulated** and potentially dangerous.

tarry

v. to delay or linger in a place; to stay or remain longer than necessary; to procrastinate or be slow in leaving; to wait or wait for something; (adjective) referring to something that is like tar in consistency or color, or is smeared or covered with tar

synonym: delay, linger, loiter

(1) **tarry** road surface, (2) **tarry** over a decision

I decided to **tarry** a little longer at the beach and enjoy the sunset before heading home.

junk

n. discarded or unused material or objects, often considered worthless or of little value; also used to describe cheap or poorly made items or food that is high in calories but lacking in nutrition

synonym: trash, debris, waste

(1) **junk** mail, (2) hunk of **junk**

I need to clear out some of the **junk** in my garage.

spot

n. a particular location or place; a small round or roundish area, differing in color or feels from the surface around it

synonym: dot, mark, place

(1) beauty **spot**, (2) a **spot** on his honor

This remote **spot** is rarely visited.

lively

adj. full of energy and activity; animated

synonym: animated, energetic, vivacious

(1) **lively** conversation, (2) a **lively** song

The party was **lively**, filled with laughter and music.

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.

defuse

v. to reduce or eliminate the tension, anger, or hostility in a situation, especially a potentially explosive one, by calming, soothing, or pacifying those involved

synonym: calm, reduce, deactivate

(1) **defuse** a crisis, (2) **defuse** a bomb

The negotiator skillfully **defused** the tense situation with calm words and gestures.

energetic

adj. possessing or exerting or displaying energy

synonym: active, animated, lively

(1) **energetic** density, (2) **energetic** dog

This process caused an **energetic** chemical reaction.

messy

adj. disorganized and untidy

synonym : cluttered, disorganized, untidy

(1) **messy** data, (2) **messy** handling

His **messy** bedroom is always a source of frustration for his mother.

sterile

adj. free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing

synonym : clean, germ-free, hygienic

(1) **sterile** environment, (2) a **sterile** man

Surgeons must use **sterile** instruments to prevent infection during an operation.

define

v. to state or explain precisely the nature, scope, or meaning of something

synonym : characterize, depict, express

(1) **define** a word, (2) **define** my position

To advance this discussion, we must **define** "success" rigorously.

broaden

v. to make or become wider or more extensive; to make or become more tolerant or liberal.

synonym : expand, widen, enlarge

(1) **broaden** students' knowledge, (2) **broaden** their horizon

The company **broadened** its product line to include more customer options.

weird

adj. extraordinary, unexpected, or difficult to explain

synonym : bizarre, creepy, peculiar

(1) a **weird** dress, (2) the state of being **weird**

My computer has been acting **weird** recently.

refer

v. to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support

synonym : cite, allude, mention

(1) **refer** to a book, (2) **refer** to a map

Please **refer** to the instruction manual for further assistance.

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.

council

n. a group of people who have been elected or appointed to make decisions or give advice on a particular subject or in a particular place

synonym: board, committee, assembly

(1) other **council** members, (2) city **council** election

The city **council** voted to approve the new development project.

statistics

n. the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data

(1) **statistics** for cancer, (2) official **statistics**

The **statistics** demonstrate that poverty and unemployment are genuine problems.

wherein

adv. in or during which; in the place, time, or situation that

(1) progress to a level **wherein**, (2) **wherein** he is mistaken

The court ruled in favor of the plaintiff, **wherein** they were awarded damages for the defendant's negligence.

universe

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

synonym: cosmos, macrocosm

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

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

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.

recognize

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

synonym: acknowledge, identify, admit

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

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

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.

equilibrium

n. a state in which opposing forces or influences are balanced

synonym: balance, stability, harmony

(1) **equilibrium** point, (2) political **equilibrium**

The company struggled to maintain an **equilibrium** between its profits and social responsibilities.

exploit

v. to make full use of and gain an advantage from resources, opportunities, etc.

synonym: use, abuse, control

(1) **exploit** a security hole, (2) **exploit** a valuable opportunity

We **exploit** our mining resources to strengthen our national power.

shining

adj. giving off or reflecting light; bright, glistening, or gleaming; characterized by impressive accomplishments

or excellence

synonym : sparkling, gleaming, radiant

(1) **shining** star, (2) **shining** example

The **shining** sun reflected off the calm ocean water.

photosynthesis

n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.

(1) oxygenic **photosynthesis**, (2) process of **photosynthesis**

In **photosynthesis**, plants use carbon dioxide to feed themselves.

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**.

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.

solid

adj. hard or firm; characterized by good substantial quality

synonym : stable, reliable, hard

(1) **solid** ally, (2) **solid** employment measures

The **solid-state** of water is called ice.

transform

v. to change in outward structure or looks;

synonym : alter, convert, change

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

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

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.

existence

n. the state or fact of someone or something existing

synonym: fact, being, reality

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

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

Session 2: Spelling

1. ne___l stem cells *adj.* of or relating to a nerve or the nervous system that includes the brain
2. theory of the un____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
3. b__r image *n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
4. other co____l members *n.* a group of people who have been elected or appointed to make decisions or give advice on a particular subject or in a particular place
5. a ch____al compound *adj.* relating to or connected with chemistry;
6. aquatic co____nd *n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
7. or____c soils *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
8. chaotic env____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live

ANSWERS: 1. neural, 2. universe, 3. blur, 4. council, 5. chemical, 6. compound, 7. organic, 8. environment

9. en_____ic dog *adj.* possessing or exerting or displaying energy
10. 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
11. me__y handling *adj.* disorganized and untidy
12. ac_____te a motor *v.* make something start working, more active or dynamic
13. a strain of vi__s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
14. 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
15. soft c__y ground *n.* a natural, earthy material that is made up of very small particles of minerals and can be molded when wet and then fired to produce ceramics
16. ex_____t a valuable opportunity *v.* to make full use of and gain an advantage from resources, opportunities, etc.
17. em_____ce as a national leader *n.* the process or fact of coming into existence or becoming apparent
18. motion b__r *n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
19. int_____ate sanction *adj.* situated between two locations, things, states, etc.; around the middle of a scale of evaluation

ANSWERS: 9. energetic, 10. discovery, 11. messy, 12. activate, 13. virus, 14. maintain, 15. clay, 16. exploit, 17. emergence, 18. blur, 19. intermediate

20. the wan light of d__n
n. the time of day when the sun's light starts to show in the sky
21. achieve the hi____ic feat
adj. famous or significant in history, or potentially so
22. di____s options
v. to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
23. rec____re the network
v. to change the configuration or arrangement of something, often to improve its performance or functionality
24. sy____ic fiber
adj. made by combining chemical substances as opposed to being naturally occurring
25. in____ic acid
adj. being or consisting of nonliving stuff; chemical compounds that contain no or only trace amounts of carbon
26. sequencing of the human ge___e
n. the complete set or sequence of genes of a human, animal, plant, or other living things
27. o__e with confidence
v. to flow or seep out slowly, often in a thick, viscous manner; to exude or emit slowly and steadily
28. sen____al crime
adj. extremely or remarkably good; causing great public interest or excitement
29. fu__d glass
adj. joined together or combined into one; blended or integrated in a way that creates a new entity
30. fun____al rights
adj. forming an essential base or core from which everything else develops or is affected

ANSWERS: 20. dawn, 21. historic, 22. discuss, 23. reconfigure, 24. synthetic, 25. inorganic, 26. genome, 27. ooze, 28. sensational, 29. fused, 30. fundamental

31. in_____ic nutrition *adj.* being or consisting of nonliving stuff; chemical compounds that contain no or only trace amounts of carbon
32. tr_____rm heat into power *v.* to change in outward structure or looks;
33. hu_____g bird *adj.* producing a continuous, low, vibrating sound like that of the bee
34. or____n of information *n.* the first existence or beginning of something
35. de____e a word *v.* to state or explain precisely the nature, scope, or meaning of something
36. pr_____le outcome *adj.* likely to happen or likely to be true
37. tr_____rm an education system *v.* to change in outward structure or looks;
38. a bu__h of trees *n.* a grouping of several similar things which are growing or fastened together
39. the characters that re_____nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
40. in_____et a graph *v.* to explain or assign the meaning of information, actions, etc.
41. classic arc_____ure *n.* the art and science of designing and constructing buildings
42. female of_____ng *n.* descendant; any immature animal or plant
43. a dy_____c market *adj.* having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)

ANSWERS: 31. inorganic, 32. transform, 33. humming, 34. origin, 35. define, 36. probable, 37. transform, 38. bunch, 39. represent, 40. interpret, 41. architecture, 42. offspring, 43. dynamic

44. ecology and evo_____ary biology *adj.* relating to or denoting how living things develop or change from earlier forms
45. su_____n a wellness lifestyle *v.* to supply enough of what somebody or something needs to survive or exist; to accept as valid
46. official sta_____cs *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
47. liquid cr_____l *n.* a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica
48. di_____e the cake into two pieces *v.* to separate or cause to separate into parts or groups
49. vi_____e with anger *v.* to move or cause anything to move fast and in small increments from side to side
50. dr_____t formation *n.* a small drop of liquid
51. mon_____ite clay *n.* a soft clay mineral belonging to the group of smectite minerals, named after the town of Montmorillon in France, where it was first discovered, known for its ability to swell and retain water, as well as its use in ceramics and the oil drilling industry
52. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory

ANSWERS: 44. evolutionary, 45. sustain, 46. statistics, 47. crystal, 48. divide, 49. vibrate, 50. droplet, 51. montmorillonite, 52. lab

53. cha_____ize his work *v.* to describe the distinctive nature or features of someone or something; to be a distinguishing feature of
54. a we__d dress *adj.* extraordinary, unexpected, or difficult to explain
55. in_____t ancestral property *v.* to receive money, property, or a title from someone after they have died
56. se_____ly connected *adv.* used to introduce the second point or item in a list or series of statements, considerations, etc.
57. pr_____ve society *adj.* of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style
58. 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
59. the bo_____ry between reality and fantasy *n.* a real or imaginary line that marks the limit or extent of something and separates it from other things or places
60. mi_____e of emotions *n.* a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
61. ev_____on theory *n.* a gradual process of transformation of living things
62. fu__d bones *adj.* joined together or combined into one; blended or integrated in a way that creates a new entity

ANSWERS: 53. characterize, 54. weird, 55. inherit, 56. secondly, 57. primitive, 58. planet, 59. boundary, 60. mixture, 61. evolution, 62. fused

63. draw a dis_____on *n.* a difference or contrast between similar things or people
64. hi_____ic accomplishment *adj.* famous or significant in history, or potentially so
65. cha_____ize the relationship *v.* to describe the distinctive nature or features of someone or something; to be a distinguishing feature of
66. a glass t___e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
67. as_____te alcohol with gambling *v.* to mentally connect someone or something with someone or something else
68. se_____ly, it is important *adv.* used to introduce the second point or item in a list or series of statements, considerations, etc.
69. racial or____n *n.* the first existence or beginning of something
70. a remote re_____ve *adj.* considered and evaluated through comparison with something else
71. a seafaring na____n *n.* a large organized community of people living in a particular country or region and having a particular culture
72. consistency cr_____ia *n.* (plural of criterion) standards or conditions by which something may be judged or decided
73. 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

ANSWERS: 63. distinction, 64. historic, 65. characterize, 66. tube, 67. associate, 68. secondly, 69. origin, 70. relative, 71. nation, 72. criteria, 73. discovery

74. a li___y song *adj.* full of energy and activity; animated
75. secret ing_____nts *n.* one of the things used to make something, especially one of the foods used to make a particular dish
76. take a qu_____on *n.* a group of words taken from a text or speech and repeated by someone other than the original author or speaker
77. sh_____g star *adj.* giving off or reflecting light; bright, glistening, or gleaming; characterized by impressive accomplishments or excellence
78. art_____al flowers *adj.* not natural and made by human beings; not real but produced to resemble something
79. the evo_____ary process *adj.* relating to or denoting how living things develop or change from earlier forms
80. en_____er a crisis *v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
81. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
82. t_r component *n.* a thick, sticky substance that is dark in color and is commonly used for road surfacing or as a material for roofing; a common byproduct of burning coal or wood
83. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things

ANSWERS: 74. lively, 75. ingredient, 76. quotation, 77. shining, 78. artificial, 79. evolutionary, 80. encounter, 81. biology, 82. tar, 83. biology

84. or__n bleeding *n.* a part of the body of an animal or plant that has a particular purpose and performs a specific job
85. a town acc_____le by rail *adj.* capable of being reached, easily got, or seen
86. his research area of con_____ion *n.* the ability to focus all your time and energy on one thing without thinking about anything else.
87. toxic ch_____als *adj.* relating to or connected with chemistry;
88. a gradual re_____on *n.* a decrease in size, amount, or degree
89. please revise li_____se *adv.* in the same way
90. colorless li____d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
91. political equ_____um *n.* a state in which opposing forces or influences are balanced
92. 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
93. a b__b of jelly *n.* a small amount or drop of a thick liquid or sticky substance
94. wh_____n he is mistaken *adv.* in or during which; in the place, time, or situation that
95. hemoglobin met_____sm *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining

ANSWERS: 84. organ, 85. accessible, 86. concentration, 87. chemical, 88. reduction, 89. likewise, 90. liquid, 91. equilibrium, 92. purity, 93. blob, 94. wherein, 95. metabolism

96. de___e a crisis *v.* to reduce or eliminate the tension, anger, or hostility in a situation, especially a potentially explosive one, by calming, soothing, or pacifying those involved
97. field of fun_____al medicine *adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
98. me__y data *adj.* disorganized and untidy
99. sa_____y a desire *v.* to make somebody pleased by giving them what they want or need
100. perfect mi_____e *n.* a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
101. ca_____l topping *n.* a sweet, dark brown, sticky substance made by heating sugar or syrup until it melts and then cooling it quickly
102. aerobic or_____sm *n.* a tiny living thing
103. co_____st with a decade ago *v.* to put in opposition to show or emphasize differences
104. 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

ANSWERS: 96. defuse, 97. functional, 98. messy, 99. satisfy, 100. mixture, 101. caramel, 102. organism, 103. contrast, 104. process

105. cr_____ia for action *n.* (plural of criterion) standards or conditions by which something may be judged or decided
106. unr_____ed market *adj.* not subject to official rules, procedures, or oversight; not controlled or supervised by a governing authority or system
107. a rock fo_____on *n.* the way something is created naturally or the way it has been arranged
108. my friend's cha_____tic laugh *n.* a typical feature or quality that can identify, tell apart, or describe something or somebody
109. a bu__h of schoolgirls *n.* a grouping of several similar things which are growing or fastened together
110. mo___g experience *adj.* causing strong emotions or feelings, especially sadness or sympathy
111. di_____s solutions *v.* to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
112. in_____t estate *v.* to receive money, property, or a title from someone after they have died
113. harmful co_____nd *n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
114. ac_____te a receptor *v.* make something start working, more active or dynamic
115. sen_____al news *adj.* extremely or remarkably good; causing great public interest or excitement

ANSWERS: 105. criteria, 106. unregulated, 107. formation, 108. characteristic, 109. bunch, 110. moving, 111. discuss, 112. inherit, 113. compound, 114. activate, 115. sensational

116. pr____le cause of a fire *adj.* likely to happen or likely to be true
117. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
118. ta__y road surface *v.* to delay or linger in a place; to stay or remain longer than necessary; to procrastinate or be slow in leaving; to wait or wait for something; (adjective) referring to something that is like tar in consistency or color, or is smeared or covered with tar
119. hu_____g sound *adj.* producing a continuous, low, vibrating sound like that of the bee
120. early pr_____pe *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
121. ex_____e the world *v.* to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
122. po_____s divine powers *v.* to have or own something or to have as an attribute, knowledge, skill, etc.
123. high-resolution mic_____ph *n.* a photograph or image that has been taken through a microscope or magnifying lens, typically used for scientific or medical purposes
124. en_____ic density *adj.* possessing or exerting or displaying energy
125. mo_____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds

ANSWERS: 116. probable, 117. environment, 118. tarry, 119. humming, 120. prototype, 121. explore, 122. possess, 123. micrograph, 124. energetic, 125. molecule

126. so__d ally *adj.* hard or firm; characterized by good substantial quality
127. mic_____ph image *n.* a photograph or image that has been taken through a microscope or magnifying lens, typically used for scientific or medical purposes
128. pri_____al forms of life *adj.* existing from the beginning of time or the start of a particular process; relating to the earliest stage of the universe
129. as_____ly line *n.* a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country
130. so__d employment measures *adj.* hard or firm; characterized by good substantial quality
131. infrared sp_____um *n.* an ordered array of colors into which a light beam can be split
132. s__k an employee *v.* to remove or dismiss someone from a position or place; (noun) a large bag made of strong, rough material, such as burlap, that is used for storing or carrying things
133. pri_____al gas *adj.* existing from the beginning of time or the start of a particular process; relating to the earliest stage of the universe
134. ca_____l candy *n.* a sweet, dark brown, sticky substance made by heating sugar or syrup until it melts and then cooling it quickly
135. cell me_____nes *n.* a soft, thin layer that forms animal or vegetable tissue

ANSWERS: 126. solid, 127. micrograph, 128. primordial, 129. assembly, 130. solid, 131. spectrum, 132. sack, 133. primordial, 134. caramel, 135. membrane

136. a person of di_____e talents *adj.* including numerous categories of individuals or entities; various
137. art_____al environment *adj.* not natural and made by human beings; not real but produced to resemble something
138. a sleep s__k *v.* to remove or dismiss someone from a position or place; (noun) a large bag made of strong, rough material, such as burlap, that is used for storing or carrying things
139. li_____ke painting *adj.* resembling or appearing similar to something alive or real, often realistically or vividly; convincing or authentic in appearance or behavior
140. sodium mon_____ite *n.* a soft clay mineral belonging to the group of smectite minerals, named after the town of Montmorillon in France, where it was first discovered, known for its ability to swell and retain water, as well as its use in ceramics and the oil drilling industry
141. lo___e a tumor *v.* to specify or determine the exact position of someone or something
142. hazardous li___d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
143. at___h a file to an e-mail *v.* to fasten, join, or connect one thing to another
144. a st_____e man *adj.* free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing

ANSWERS: 136. diverse, 137. artificial, 138. sack, 139. lifelike, 140. montmorillonite, 141. locate, 142. liquid, 143. attach, 144. sterile

145. make dr____c revision *adj.* radical and extreme; likely to have a significant or far-reaching impact
146. re_____ce the painting *v.* to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process
147. as___ts of social, political, and economic life *n.* one part or feature of a situation, problem, subject, etc.
148. dr____c measures *adj.* radical and extreme; likely to have a significant or far-reaching impact
149. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
150. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
151. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
152. equ_____um point *n.* a state in which opposing forces or influences are balanced
153. anthropology lab_____ry *n.* a workplace for doing scientific research or teaching science; a lab
154. re_____te data *v.* to make an exact copy of something; to repeat a process or experiment to confirm the results
155. compound the ing_____nts *n.* one of the things used to make something, especially one of the foods used to make a particular dish

ANSWERS: 145. drastic, 146. reproduce, 147. aspect, 148. drastic, 149. molecule, 150. brain, 151. experiment, 152. equilibrium, 153. laboratory, 154. replicate, 155. ingredient

156. re____ve factors *adj.* considered and evaluated through comparison with something else
157. 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
158. re____l the car *v.* to change the structure or form of something
159. 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
160. co____e the listener *v.* to mistake one thing for another; to make somebody hard to understand
161. 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
162. ge____e analyses *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
163. expansion of the un____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
164. cognitive com____ty *n.* the state or quality of being complicated or intricate and difficult to understand
165. reap a ha____t *n.* yields of plants in a single growing season; the period of the year when gathering occurs on a farm

ANSWERS: 156. relative, 157. maintain, 158. remodel, 159. develop, 160. confuse, 161. preserve, 162. genome, 163. universe, 164. complexity, 165. harvest

166. dis_____sh man from the other animals *v.* to notice or understand the difference between two people or things
167. nontechnical as____ts of the job *n.* one part or feature of a situation, problem, subject, etc.
168. artifact of a pr_____ve humankind *adj.* of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style
169. geographical bo_____ry *n.* a real or imaginary line that marks the limit or extent of something and separates it from other things or places
170. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
171. sim_____ic design *adj.* oversimplified or lacking in complexity or depth; characterized by an attempt to explain something complex or multifaceted with overly vague or simple terms
172. 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
173. ev___e *v.* to develop gradually, or to cause the development of something or someone gradually

ANSWERS: 166. distinguish, 167. aspect, 168. primitive, 169. boundary, 170. brain, 171. simplistic, 172. process, 173. evolve

174. rud_____ry understanding *adj.* relating to basic facts or principles; fundamental
175. a broad sp_____um of opinion *n.* an ordered array of colors into which a light beam can be split
176. pre-mo___n agricultural society *adj.* of or belonging to the present time or recent times
177. a space-time co_____um *n.* a series of similar items in which no part or portion is distinct or distinguishable from adjacent parts
178. fo_____on flight *n.* the way something is created naturally or the way it has been arranged
179. protein sy_____is inhibitor *n.* the combination of components or elements to form a more complex whole; the creation of something new through combining parts or elements
180. en_____er a storm *v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
181. t_r residue *n.* a thick, sticky substance that is dark in color and is commonly used for road surfacing or as a material for roofing; a common byproduct of burning coal or wood
182. fun_____al education *adj.* forming an essential base or core from which everything else develops or is affected
183. 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

ANSWERS: 174. rudimentary, 175. spectrum, 176. modern, 177. continuum, 178. formation, 179. synthesis, 180. encounter, 181. tar, 182. fundamental, 183. planet

184. produce of _____ng *n.* descendant; any immature animal or plant
185. f__e with one another *n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat
186. group of or _____sms *n.* a tiny living thing
187. new hy___d system *adj.* composed of different elements or mixed characters
188. double qu_____on marks *n.* a group of words taken from a text or speech and repeated by someone other than the original author or speaker
189. computer-con_____ble *adj.* able to be controlled or directed
190. the struggle for ex_____ce *n.* the state or fact of someone or something existing
191. sy_____ic fertilizer *adj.* made by combining chemical substances as opposed to being naturally occurring
192. crack of d__n *n.* the time of day when the sun's light starts to show in the sky
193. pa_____te disease *n.* an organism that lives on or in another organism and benefits by deriving nutrients at the other's expense
194. li___y conversation *adj.* full of energy and activity; animated
195. at_____te the change to their marriage *v.* to say or regard that something is the result of a particular thing; (noun) a quality or feature that someone or something possesses;

ANSWERS: 184. offspring, 185. fuse, 186. organism, 187. hybrid, 188. quotation, 189. controllable, 190. existence, 191. synthetic, 192. dawn, 193. parasite, 194. lively, 195. attribute

196. blood-sucking pa____te *n.* an organism that lives on or in another organism and benefits by deriving nutrients at the other's expense
197. o__e from the speakers *v.* to flow or seep out slowly, often in a thick, viscous manner; to exude or emit slowly and steadily
198. hunk of j__k *n.* discarded or unused material or objects, often considered worthless or of little value; also used to describe cheap or poorly made items or food that is high in calories but lacking in nutrition
199. global b__d market *n.* a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money
200. mo____g ceremony *adj.* causing strong emotions or feelings, especially sadness or sympathy
201. nuclear me____ne *n.* a soft, thin layer that forms animal or vegetable tissue
202. the state of being we__d *adj.* extraordinary, unexpected, or difficult to explain
203. dr____t size *n.* a small drop of liquid
204. co____e fantasy with reality *v.* to mistake one thing for another; to make somebody hard to understand
205. vi____e at a regular frequency *v.* to move or cause anything to move fast and in small increments from side to side
206. di____e money equally *v.* to separate or cause to separate into parts or groups

ANSWERS: 196. parasite, 197. ooze, 198. junk, 199. bond, 200. moving, 201. membrane, 202. weird, 203. droplet, 204. confuse, 205. vibrate, 206. divide

207. spread of the vi__s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
208. ex____t a security hole *v.* to make full use of and gain an advantage from resources, opportunities, etc.
209. con_____ion of armaments *n.* the ability to focus all your time and energy on one thing without thinking about anything else.
210. the biggest tree in ex_____ce *n.* the state or fact of someone or something existing
211. ta__y over a decision *v.* to delay or linger in a place; to stay or remain longer than necessary; to procrastinate or be slow in leaving; to wait or wait for something; (adjective) referring to something that is like tar in consistency or color, or is smeared or covered with tar
212. a scanty ha____t *n.* yields of plants in a single growing season; the period of the year when gathering occurs on a farm
213. complete a pr_____pe product *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
214. met_____sm enzyme *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
215. br_____n their horizon *v.* to make or become wider or more extensive; to make or become more tolerant or liberal.

ANSWERS: 207. virus, 208. exploit, 209. concentration, 210. existence, 211. tarry, 212. harvest, 213. prototype, 214. metabolism, 215. broaden

216. unr_____ed off-shore fishing *adj.* not subject to official rules, procedures, or oversight; not controlled or supervised by a governing authority or system
217. stripes cha_____tic of the zebra *n.* a typical feature or quality that can identify, tell apart, or describe something or somebody
218. c__y animation *n.* a natural, earthy material that is made up of very small particles of minerals and can be molded when wet and then fired to produce ceramics
219. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
220. a capillary t__e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
221. professor of ch_____ry *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
222. a rud_____ry plant *adj.* relating to basic facts or principles; fundamental
223. ne___l networks in AI *adj.* of or relating to a nerve or the nervous system that includes the brain
224. fall li_____ss *adj.* without life; dead
225. beauty s__t *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it

ANSWERS: 216. unregulated, 217. characteristic, 218. clay, 219. evolve, 220. tube, 221. chemistry, 222. rudimentary, 223. neural, 224. lifeless, 225. spot

226. st____e environment *adj.* free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing
227. mo____nt of troops *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
228. co____st two things *v.* to put in opposition to show or emphasize differences
229. damage to internal or__ns *n.* a part of the body of an animal or plant that has a particular purpose and performs a specific job
230. dy____c person *adj.* having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)
231. city co____l election *n.* a group of people who have been elected or appointed to make decisions or give advice on a particular subject or in a particular place
232. chemical re____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
233. cellular mor____gy *n.* the study of the form and structure of plants, animals, and other organisms; the study of the alteration of word forms as they change from one part of speech to another

ANSWERS: 226. sterile, 227. movement, 228. contrast, 229. organ, 230. dynamic, 231. council, 232. reaction, 233. morphology

234. re_____ze talent *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
235. the co_____um of events *n.* a series of similar items in which no part or portion is distinct or distinguishable from adjacent parts
236. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
237. a circular mo_____nt *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
238. a s__t on his honor *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
239. con_____ble aircraft *adj.* able to be controlled or directed
240. f__e blows *n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat
241. labor pop_____on *n.* the total number of people in a country, region, or location
242. li_____ke animation *adj.* resembling or appearing similar to something alive or real, often realistically or vividly; convincing or authentic in appearance or behavior

ANSWERS: 234. recognize, 235. continuum, 236. experiment, 237. movement, 238. spot, 239. controllable, 240. fuse, 241. population, 242. lifelike

243. lab_____ry accident *n.* a workplace for doing scientific research or teaching science; a lab
244. 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
245. 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
246. 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
247. an interspecific hy____d *adj.* composed of different elements or mixed characters
248. co_____t mainly of cells *v.* to be composed or made up of
249. int_____ate level *adj.* situated between two locations, things, states, etc.; around the middle of a scale of evaluation
250. re__r to a map *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
251. re-em_____ce of rampant inflation *n.* the process or fact of coming into existence or becoming apparent
252. fun_____al deafness *adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service

ANSWERS: 243. laboratory, 244. sustain, 245. preserve, 246. develop, 247. hybrid, 248. consist, 249. intermediate, 250. refer, 251. emergence, 252. functional

253. st_____re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
254. co_____t fat into energy *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
255. 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
256. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
257. sta_____cs for cancer *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
258. meet req_____nt *n.* something that is needed or wanted
259. at____h firmly *v.* to fasten, join, or connect one thing to another
260. j__k mail *n.* discarded or unused material or objects, often considered worthless or of little value; also used to describe cheap or poorly made items or food that is high in calories but lacking in nutrition
261. rec_____re the operating system *v.* to change the configuration or arrangement of something, often to improve its performance or functionality
262. progress to a level wh_____n *adv.* in or during which; in the place, time, or situation that
263. change the ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment

ANSWERS: 253. structure, 254. convert, 255. purity, 256. complexity, 257. statistics, 258. requirement, 259. attach, 260. junk, 261. reconfigure, 262. wherein, 263. ecosystem

264. de___e my position *v.* to state or explain precisely the nature, scope, or meaning of something
265. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
266. sa_____y a user's needs *v.* to make somebody pleased by giving them what they want or need
267. as_____te with people widely *v.* to mentally connect someone or something with someone or something else
268. do li_____se *adv.* in the same way
269. acc_____le to pity *adj.* capable of being reached, easily got, or seen
270. school req_____nt *n.* something that is needed or wanted
271. re_____te the cell *v.* to make an exact copy of something; to repeat a process or experiment to confirm the results
272. re__r to a book *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
273. a big b__b of yellow *n.* a small amount or drop of a thick liquid or sticky substance
274. in_____et the question *v.* to explain or assign the meaning of information, actions, etc.
275. as_____ly hall *n.* a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country

ANSWERS: 264. define, 265. lab, 266. satisfy, 267. associate, 268. likewise, 269. accessible, 270. requirement, 271. replicate, 272. refer, 273. blob, 274. interpret, 275. assembly

286. marine ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
287. na___n-state *n.* a large organized community of people living in a particular country or region and having a particular culture
288. the ch_____ry of soil *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
289. sim_____ic approach *adj.* oversimplified or lacking in complexity or depth; characterized by an attempt to explain something complex or multifaceted with overly vague or simple terms
290. arc_____ure design *n.* the art and science of designing and constructing buildings
291. process of pho_____sis *n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
292. cr_____l analyses *n.* a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica
293. br_____n students' knowledge *v.* to make or become wider or more extensive; to make or become more tolerant or liberal.

ANSWERS: 286. ecosystem, 287. nation, 288. chemistry, 289. simplistic, 290. architecture, 291. photosynthesis, 292. crystal, 293. broaden

294. po_____s a basic knowledge *v.* to have or own something or to have as an attribute, knowledge, skill, etc.
295. mor_____gy of a language *n.* the study of the form and structure of plants, animals, and other organisms; the study of the alteration of word forms as they change from one part of speech to another
296. re_____ce by myself *v.* to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process
297. oxygenic pho_____sis *n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
298. pop_____on change *n.* the total number of people in a country, region, or location
299. di_____e backgrounds *adj.* including numerous categories of individuals or entities; various
300. important dis_____on *n.* a difference or contrast between similar things or people
301. ind_____al freedom *n.* a single person or thing, as distinct from a group
302. at_____te directly to sales *v.* to say or regard that something is the result of a particular thing; (noun) a quality or feature that someone or something possesses;
303. re_____on strategy *n.* a decrease in size, amount, or degree

ANSWERS: 294. possess, 295. morphology, 296. reproduce, 297. photosynthesis, 298. population, 299. diverse, 300. distinction, 301. individual, 302. attribute, 303. reduction

304. co_____t base 10 to base 16 *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
305. human ev_____on *n.* a gradual process of transformation of living things
306. sh_____g example *adj.* giving off or reflecting light; bright, glistening, or gleaming; characterized by impressive accomplishments or excellence
307. b__d as a family *n.* a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money
308. sy_____is of ammonia *n.* the combination of components or elements to form a more complex whole; the creation of something new through combining parts or elements
309. re_____nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
310. eat or_____c food *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
311. lo___e a missing pet *v.* to specify or determine the exact position of someone or something
312. mo___n poetry *adj.* of or belonging to the present time or recent times

ANSWERS: 304. convert, 305. evolution, 306. shining, 307. bond, 308. synthesis, 309. represent, 310. organic, 311. locate, 312. modern

Session 3: Fill in the Blanks

1. This process caused an _____ chemical reaction.
adj. possessing or exerting or displaying energy
2. 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.
3. We need to _____ the office layout to use the space better.
v. to change the configuration or arrangement of something, often to improve its performance or functionality
4. They study the _____ of the universe.
n. a gradual process of transformation of living things
5. To advance this discussion, we must _____ "success" rigorously.
v. to state or explain precisely the nature, scope, or meaning of something
6. 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
7. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
n. a workplace for the conduct of scientific research; a laboratory
8. Human behavior has _____ characteristics.
adj. forming an essential base or core from which everything else develops or is affected

ANSWERS: 1. energetic, 2. secondly, 3. reconfigure, 4. evolution, 5. define, 6. ecosystem, 7. lab, 8. fundamental

9. During the flight, the wings of the plane _____.
- v.* to move or cause anything to move fast and in small increments from side to side
10. He has only a _____ knowledge of this topic.
- adj.* relating to basic facts or principles; fundamental
11. His _____ showed highly positive results.
- n.* the scientific test conducted to observe what happens and gain new knowledge
12. He was an atheist and therefore did not believe in the _____ of heaven or hell.
- n.* the state or fact of someone or something existing
13. A _____ of ink fell on the floor.
- n.* a small amount or drop of a thick liquid or sticky substance
14. This remote _____ is rarely visited.
- n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
15. Please _____ to the instruction manual for further assistance.
- v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
16. Greed is the primary _____ in the making of criminals.
- n.* one of the things used to make something, especially one of the foods used to make a particular dish

ANSWERS: 9. vibrate, 10. rudimentary, 11. experiments, 12. existence, 13. blob, 14. spot, 15. refer, 16. ingredient

17. The organizational _____ of start-ups is often flat and straightforward.
n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
18. His _____ speech about his struggles with addiction brought tears to the audience's eyes.
adj. causing strong emotions or feelings, especially sadness or sympathy
19. I need to clear out some of the _____ in my garage.
n. discarded or unused material or objects, often considered worthless or of little value; also used to describe cheap or poorly made items or food that is high in calories but lacking in nutrition
20. After his death, his sons _____ his business.
v. to receive money, property, or a title from someone after they have died
21. There are various hypotheses concerning the _____ of life.
n. the first existence or beginning of something
22. He included a _____ from the book in his essay.
n. a group of words taken from a text or speech and repeated by someone other than the original author or speaker
23. The Chinese people have accomplished several _____ feats.
adj. famous or significant in history, or potentially so
24. They had formed a friendship _____.
n. a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money

ANSWERS: 17. structure, 18. moving, 19. junk, 20. inherited, 21. origin, 22. quotation, 23. historic, 24. bond

25. He wandered the _____ between life and death by gunfire.
n. a real or imaginary line that marks the limit or extent of something and separates it from other things or places
26. This device displayed the speech _____ spectrographically.
n. an ordered array of colors into which a light beam can be split
27. He was _____ from his job for stealing company property.
v. to remove or dismiss someone from a position or place; (noun) a large bag made of strong, rough material, such as burlap, that is used for storing or carrying things
28. New York is a city with a _____ ethnic population.
adj. including numerous categories of individuals or entities; various
29. 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
30. _____ algorithms can find ways to optimize that humans do not anticipate.
adj. relating to or denoting how living things develop or change from earlier forms
31. In just four years, the _____ has doubled.
n. the total number of people in a country, region, or location
32. The company _____ its product line to include more customer options.
v. to make or become wider or more extensive; to make or become more tolerant or liberal.

ANSWERS: 25. boundary, 26. spectrum, 27. sacked, 28. diverse, 29. preserve, 30. Evolutionary, 31. population, 32. broadened

33. The wound on his leg continued to _____ blood even after he applied pressure.
v. to flow or seep out slowly, often in a thick, viscous manner; to exude or emit slowly and steadily
34. What is the entry _____ for this course?
n. something that is needed or wanted
35. The politician's solution to the problem was too _____ to solve the underlying issue.
adj. oversimplified or lacking in complexity or depth; characterized by an attempt to explain something complex or multifaceted with overly vague or simple terms
36. 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
37. He does not _____ importance to these rumors.
v. to fasten, join, or connect one thing to another
38. Loud noises might harm the fragile ear _____.
n. a soft, thin layer that forms animal or vegetable tissue
39. You must _____ the software with a 16-digit key before you can use it.
v. make something start working, more active or dynamic
40. These infections have the potential to impact practically every _____ system.
n. a part of the body of an animal or plant that has a particular purpose and performs a specific job

ANSWERS: 33. ooze, 34. requirement, 35. simplistic, 36. nation, 37. attach, 38. membrane, 39. activate, 40. organ

41. Character _____ is one of the goals of education.

n. the way something is created naturally or the way it has been arranged

42. 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

43. The sponge takes up the _____ well.

n. a substance, such as water or oil that flows freely and is neither a solid nor a gas

44. It's intriguing to compare and _____ the two authors.

v. to put in opposition to show or emphasize differences

45. 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

46. 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

47. Her remarks _____ the debate.

v. to mistake one thing for another; to make somebody hard to understand

48. The artist created a _____ sculpture of a famous politician for the town square.

adj. resembling or appearing similar to something alive or real, often realistically or vividly; convincing or authentic in appearance or behavior

ANSWERS: 41. formation, 42. criteria, 43. liquid, 44. contrast, 45. process, 46. maintain, 47. confused, 48. lifelike

49. The plant had a _____ appearance, indicating that it was not getting enough water.

adj. without life; dead

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

adj. relating to or connected with chemistry;

51. 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

52. 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

53. Eyeless fish _____ in dark caves.

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

54. I'm prepared to _____ challenges throughout this adventure.

v. to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly

55. The road workers spread ____ over the cracks in the pavement to prevent water and ice from causing further damage.

n. a thick, sticky substance that is dark in color and is commonly used for road surfacing or as a material for roofing; a common byproduct of burning coal or wood

56. The global community is undergoing _____ changes at present.

adj. radical and extreme; likely to have a significant or far-reaching impact

ANSWERS: 49. lifeless, 50. chemical, 51. planet, 52. environment, 53. evolved, 54. encounter, 55. tar, 56. drastic

57. We _____ our mining resources to strengthen our national power.
v. to make full use of and gain an advantage from resources, opportunities, etc.
58. There was a disturbance of _____ function.
adj. of or relating to a nerve or the nervous system that includes the brain
59. The _____ is about 13.8 billion years old.
n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
60. The _____ train was packed with commuters during rush hour.
n. a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
61. His _____ bedroom is always a source of frustration for his mother.
adj. disorganized and untidy
62. The discovery of the _____ soup was a crucial step in understanding the origins of life on Earth.
adj. existing from the beginning of time or the start of a particular process; relating to the earliest stage of the universe
63. This company's _____ plant is an enormous facility.
n. a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country
64. Without regulations, the industry is _____ and potentially dangerous.
adj. not subject to official rules, procedures, or oversight; not controlled or supervised by a governing authority or system

ANSWERS: 57. exploit, 58. neural, 59. universe, 60. tube, 61. messy, 62. primordial, 63. assembly, 64. unregulated

65. We need to _____ the next steps for the project during our meeting tomorrow.
- v.* to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
66. The paint was a _____ of different pigments to achieve the desired color.
- n.* a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
67. By dividing and creating copies of themselves, bacteria _____.
- v.* to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process
68. The chemical _____ of the new drug was a breakthrough in medical research.
- n.* the combination of components or elements to form a more complex whole; the creation of something new through combining parts or elements
69. The company struggled to maintain an _____ between its profits and social responsibilities.
- n.* a state in which opposing forces or influences are balanced
70. 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
71. His professional experience includes all _____ of media production.
- n.* one part or feature of a situation, problem, subject, etc.
72. There was a chemical _____ of the lime with the groundwater.
- n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others

ANSWERS: 65. discuss, 66. mixture, 67. reproduce, 68. synthesis, 69. equilibrium, 70. sustain, 71. aspects, 72. reaction

73. The industry in this country is still _____.

adj. of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style

74. Bananas have their _____ taste and odor.

n. a typical feature or quality that can identify, tell apart, or describe something or somebody

75. The new software is much more _____ and user-friendly.

adj. able to be controlled or directed

76. In _____ plants use carbon dioxide to feed themselves.

n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.

77. He is familiar with _____ and biology.

n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions

78. We are _____ these rooms now.

v. to change the structure or form of something

79. Purple is _____ between blue and red.

adj. situated between two locations, things, states, etc.; around the middle of a scale of evaluation

80. Our life is a _____ of experience in which events pass from the future through the present to the past.

n. a series of similar items in which no part or portion is distinct or distinguishable from adjacent parts

ANSWERS: 73. primitive, 74. characteristic, 75. controllable, 76. photosynthesis, 77. chemistry, 78. remodeling, 79. intermediate, 80. continuum

81. The party was _____ filled with laughter and music.

adj. full of energy and activity; animated

82. The _____ demonstrate that poverty and unemployment are genuine problems.

n. the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data

83. The _____ in carbon emissions has been significant since the implementation of the new policy.

n. a decrease in size, amount, or degree

84. I decided to _____ a little longer at the beach and enjoy the sunset before heading home.

v. to delay or linger in a place; to stay or remain longer than necessary; to procrastinate or be slow in leaving; to wait or wait for something; (adjective) referring to something that is like tar in consistency or color, or is smeared or covered with tar

85. The _____ of a new virus can cause concern for public health.

n. the process or fact of coming into existence or becoming apparent

86. The _____ of the bees filled the air as she walked through the garden.

adj. producing a continuous, low, vibrating sound like that of the bee

87. 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

88. Common salt is a sodium and chlorine _____.

n. an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements

ANSWERS: 81. lively, 82. statistics, 83. reduction, 84. tarry, 85. emergence, 86. humming, 87. discovery, 88. compound

89. Different people might _____ this news differently.
v. to explain or assign the meaning of information, actions, etc.
90. Missile assaults on the capital continued around _____.
n. the time of day when the sun's light starts to show in the sky
91. The robot can accurately _____ construction material.
v. to specify or determine the exact position of someone or something
92. The camera's focus was off, and the image was a _____ of colors and shapes.
n. a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
93. He is tall and _____ strong.
adv. in the same way
94. The _____ of rocks can reveal clues about their geological history.
n. the study of the form and structure of plants, animals, and other organisms; the study of the alteration of word forms as they change from one part of speech to another
95. He _____ a good sense of humor.
v. to have or own something or to have as an attribute, knowledge, skill, etc.
96. Better sleep leads to increased _____.
n. the set of chemical reactions in cells or organisms that are necessary for life-sustaining
97. This examination _____ of five problems to solve.
v. to be composed or made up of

ANSWERS: 89. interpret, 90. dawn, 91. locate, 92. blur, 93. likewise, 94. morphology, 95. possesses, 96. metabolism, 97. consists

98. This study _____ four different ways to run a business.
v. to notice or understand the difference between two people or things
99. The shape of the DNA _____ is a double helix.
n. a group of two or more atoms held together by attractive forces known as chemical bonds
100. The performance was _____ with standing ovations throughout.
adj. extremely or remarkably good; causing great public interest or excitement
101. The majority of consumers _____ this brand with quality.
v. to mentally connect someone or something with someone or something else
102. The human _____ contains approximately three billion chemical base pairs.
n. the complete set or sequence of genes of a human, animal, plant, or other living things
103. The project's _____ made it difficult for the team to complete it on time.
n. the state or quality of being complicated or intricate and difficult to understand
104. The sculptor carefully molded the _____ into the desired shape.
n. a natural, earthy material that is made up of very small particles of minerals and can be molded when wet and then fired to produce ceramics
105. 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
106. My father's death _____ my life completely.
v. to change in outward structure or looks;

ANSWERS: 98. distinguished, 99. molecule, 100. sensational, 101. associate, 102. genome, 103. complexity, 104. clay, 105. purity, 106. transformed

107. The sprinter has a _____ way of running.

adj. having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)

108. He is an _____ and genial man.

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

109. The _____ content in the soil sample was analyzed to assess its suitability for agricultural use.

n. a soft clay mineral belonging to the group of smectite minerals, named after the town of Montmorillon in France, where it was first discovered, known for its ability to swell and retain water, as well as its use in ceramics and the oil drilling industry

110. Did this response _____ your request?

v. to make somebody pleased by giving them what they want or need

111. The negotiator skillfully _____ the tense situation with calm words and gestures.

v. to reduce or eliminate the tension, anger, or hostility in a situation, especially a potentially explosive one, by calming, soothing, or pacifying those involved

112. The _____ of water is called ice.

adj. hard or firm; characterized by good substantial quality

113. He _____ the disappointing results to the economic downturn.

v. to say or regard that something is the result of a particular thing; (noun) a quality or feature that someone or something possesses;

ANSWERS: 107. dynamic, 108. accessible, 109. montmorillonite, 110. satisfy, 111. defused, 112. solid-state, 113. attributes

114. The kidney is an _____ component of the body.

adj. of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals

115. It's important to _____ your strengths and weaknesses.

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

116. _____ diamonds play an essential role as machine tool blades.

adj. made by combining chemical substances as opposed to being naturally occurring

117. Tapeworms are _____ that live in the intestines of humans and animals.

n. an organism that lives on or in another organism and benefits by deriving nutrients at the other's expense

118. The city is known for its impressive _____ and beautiful old buildings.

n. the art and science of designing and constructing buildings

119. As an _____ he had the right to make his own decisions and live his life as he saw fit.

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

120. X-rays revealed a small tumor in his _____.

n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling

121. The city _____ voted to approve the new development project.

n. a group of people who have been elected or appointed to make decisions or give advice on a particular subject or in a particular place

ANSWERS: 114. organic, 115. recognize, 116. Synthetic, 117. parasites, 118. architecture, 119. individual, 120. brain, 121. council

122. This exam requires excellent _____ to pass.

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

123. A single _____ of water can reflect the entire world upside down.

n. a small drop of liquid

124. I can't see any _____ between these two concepts.

n. a difference or contrast between similar things or people

125. The _____ sauce on the ice cream was the perfect finishing touch.

n. a sweet, dark brown, sticky substance made by heating sugar or syrup until it melts and then cooling it quickly

126. The mule is a _____ between a male donkey and a female horse.

adj. composed of different elements or mixed characters

127. The _____ sun reflected off the calm ocean water.

adj. giving off or reflecting light; bright, glistening, or gleaming; characterized by impressive accomplishments or excellence

128. Animal protection groups call for an end to animal testing in a _____.

n. a workplace for doing scientific research or teaching science; a lab

129. Can you _____ 123321 by eleven?

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

130. The experiment was _____ several times to ensure accuracy.

v. to make an exact copy of something; to repeat a process or experiment to confirm the results

ANSWERS: 122. concentration, 123. droplet, 124. distinction, 125. caramel, 126. hybrid, 127. shining, 128. laboratory, 129. divide, 130. replicated

131. The _____ of the dancers on stage was graceful and elegant.
- n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
132. The management must _____ strategies to increase office security.
- v.* to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
133. Surgeons must use _____ instruments to prevent infection during an operation.
- adj.* free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing
134. A diversified plant species generally enhances beneficial _____ populations.
- n.* a tiny living thing
135. A vast _____ chandelier glittered brightly above us.
- n.* a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica
136. One bad apple spoils the whole _____.
- n.* a grouping of several similar things which are growing or fastened together
137. 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
138. The flying car is presently in the _____ stage.
- n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed

ANSWERS: 131. movement, 132. explore, 133. sterile, 134. organism, 135. crystal, 136. bunch, 137. represent, 138. prototype

139. An infected person in the hospital will likely pass the _____ to others.
n. a tiny infectious organic material that causes disease in people, animals, and plants
140. The _____ intelligence system has revolutionized the way we live and work.
adj. not natural and made by human beings; not real but produced to resemble something
141. Their love of discovery and exploration often _____ the adventurous spirit of the explorer.
v. to describe the distinctive nature or features of someone or something; to be a distinguishing feature of
142. The _____ of the cell shows detailed structures that the naked eye cannot see.
n. a photograph or image that has been taken through a microscope or magnifying lens, typically used for scientific or medical purposes
143. My computer has been acting _____ recently.
adj. extraordinary, unexpected, or difficult to explain
144. He has a short _____.
n. a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat
145. I want to _____ my sadness into strength.
v. to have a talk with someone; (adjective) reversed in order, relation, or action

ANSWERS: 139. virus, 140. artificial, 141. characterizes, 142. micrograph, 143. weird, 144. fuse, 145. convert

146. Their headquarters are in a _____ skyscraper.
adj. of or belonging to the present time or recent times
147. During _____ farmers are incredibly busy.
n. yields of plants in a single growing season; the period of the year when gathering occurs on a farm
148. The court ruled in favor of the plaintiff, _____ they were awarded damages for the defendant's negligence.
adv. in or during which; in the place, time, or situation that
149. 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
150. The _____ wires in the electrical circuit caused a power outage.
adj. joined together or combined into one; blended or integrated in a way that creates a new entity
151. In junior high school, we had to dissect a frog in _____ class.
n. the scientific study of life and the natural processes of living things
152. Most countries prohibit sexual activity between certain close _____.
adj. considered and evaluated through comparison with something else
153. _____ substances include rocks and minerals.
adj. being or consisting of nonliving stuff; chemical compounds that contain no or only trace amounts of carbon

ANSWERS: 146. modern, 147. harvest, 148. wherein, 149. develop, 150. fused, 151. biology, 152. relatives, 153. Inorganic

154. The mobile phone was still _____ even after being dropped.

adj. designed for or capable of a particular activity, purpose, or task; practical or ready for use or service

155. How many _____ does the average lion have?

n. descendant; any immature animal or plant

156. It seems _____ that he has forgotten our scheduled meeting.

adj. likely to happen or likely to be true

ANSWERS: 154. functional, 155. offspring, 156. probable