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Vocabulary Builder Reference from...

Jessica Green: We're covered in germs. Let's design for that. | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

invisible

adj. impossible or nearly impossible to see

synonym: hidden, imperceptible, unseen

(1) an **invisible** asset, (2) **invisible** stars

The phenomenon is **invisible** at optical wavelengths.

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**.

life-form

n. a living organism, especially one that has a distinct shape, structure, or behavior

synonym: organism, species, living organism

(1) **life-form** discovery, (2) a minute **life-form**

Scientists are searching for signs of **life-form** on other planets.

bacteria

n. single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

synonym: microorganism, microbe

(1) pathogenic **bacteria**, (2) harmless **bacteria**
Bacteria prevalent in hospitals are often resistant to antibiotics.

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.

fungus

n. a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive

synonym: mold, mildew, yeast

(1) **fungus** infection, (2) symbiotic **fungus**

Certain types of **fungus** can be toxic to humans, causing severe illness if ingested.

harbor

n. an area of water next to the coast where ships and boats are protected from rough water by piers, jetties, and other artificial structures; (verb) keep in one's possession

synonym: port, dock, pier

(1) a sheltered **harbor**, (2) **harbor** a resentment

The tsunami swamped every boat in the **harbor**.

resident

n. a person who lives in a particular place or has their home in a place

synonym: dweller, inhabitant, inhabitant

(1) a **resident** of the city, (2) **resident** tax

Visa renewal for **resident** foreigners in this country is once every five years.

microbe

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

synonym : germ, microorganism, bacterium

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

Microbes thrive on the surface of the human skin.

landscape

n. an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance

synonym : geography, terrain, topography

(1) a peaceful **landscape**, (2) **landscape** painting

Recent electoral shocks have shaken the political **landscape** in Europe.

interact

v. to communicate or react with somebody

synonym : cooperate, combine, collaborate

(1) **interact** directly with customers, (2) **interact** with one another

He should **interact** more with his colleagues.

trillion

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

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

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

creature

n. a living being, especially an animal

synonym : being, animal, organism

(1) **creature** of habit, (2) artificial **creature**

The deep sea **creature** was unlike anything the scientists had ever seen before.

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.

- gut** *n.* the long tube in the body of a person or animal through which food passes when it leaves the stomach; the mental strength or bravery required to do something difficult or unpleasant
synonym: belly, abdomen, courage
(1) the blind **gut**, (2) **gut** feelings
He told me a **gut-wrenching** truth about my parent's death.
- influence** *n.* the ability to affect someone's or something's character, growth, or behavior, or the effect itself
synonym: power, leverage, effect
(1) **influence** a child's future, (2) **influence** the daily life
The former emperor had a particular **influence** even after he abdicated.
- mood** *n.* the way you feel at a particular time; an angry or impatient state of mind
synonym: mindset, disposition, temper
(1) the **mood** in a room, (2) in an ugly **mood**
His gaffe spoiled the **mood** of the dinner party.
- boost** *v.* to improve, raise, or increase something
synonym: raise, advance, promote
(1) **boost** the economy, (2) **boost** flexibility
The new service helped **boost** net income by 10%.
- immune** *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
synonym: resistant, unsusceptible, unaffected
(1) **immune** from criminal prosecution, (2) the cell of the **immune** system
The vaccination does not necessarily make you completely **immune**.
- breath** *n.* the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your

lungs

synonym : air, puff, whiff

(1) hold your **breath**, (2) **breath** of wind

He bated his **breath** when talking about this affair.

exchange

v. to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded

synonym : trade, swap, interchange

(1) **exchange** rate, (2) **exchange** a few friendly words

My sister and I frequently **exchange** books, as we love reading.

surround

v. to be all around something or somebody

synonym : encircle, encompass, envelop

(1) **surround** a town, (2) a stone wall **surrounds** the palace

On three sides, mountains **surround** the settlement.

unprecedented

adj. never having been seen, done, or known before

synonym : novel, outstanding, unparalleled

(1) **unprecedented** boom, (2) **unprecedented** business opportunity

Unprecedented amounts of heckling and slogan-shouting took place throughout the event.

unconscious

adj. in the state of lacking awareness and the capacity for sensory perception, especially as the result of a head injury or illness

synonym : comatose, paralyzed, senseless

(1) **unconscious** bias, (2) a person who is **unconscious**

I know his **unconscious** habit that he touches his face when he lies.

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.

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.

demonstrate

v. to display something or give an exhibition to an interested audience

synonym: show, illustrate, display

(1) **demonstrate** a difference, (2) **demonstrate** mastery

How can you **demonstrate** that the earth is a sphere?

conscious

adj. being aware of and able to respond to what is happening around you

synonym: aware, cognizant, deliberate

(1) **conscious** effort, (2) **conscious** of having succeeded

He became **conscious** that he was being followed.

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.

architect

n. a person whose job is to design plans to be used in making something, such as buildings

synonym: creator, designer, planner

(1) landscape **architect**, (2) **architect** of the peace accord
The building **architect** tried to build the house above the tree.

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.

fossil

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

synonym: relic, remnant, antediluvian

(1) burning of **fossil** fuels, (2) a **fossil** leaf
It was the **fossil** of a dinosaur tooth.

gene

n. the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.

synonym: factor, cistron

(1) **gene** expression, (2) **gene** cloning
A defective **gene** is responsible for the disease.

sequence

n. a series of related events, actions, numbers, etc., which have a particular order

synonym: arrangement, succession, series

(1) the **sequence** of the seasons, (2) the DNA **sequence**
We do move forward with those tasks in **sequence** next week.

vacuum

n. a space empty of matter; a device or tool used for cleaning or removing debris by creating suction

synonym: void, emptiness, gap

(1) **vacuum** cleaner, (2) **vacuum** packing
Please use the **vacuum** to clean up the mess on the floor.

snap

v. to record on photographic film; to make a sudden, sharp sound; (noun) the act of catching an object with the hands

synonym: break, crack, fracture

(1) **snap** a whip, (2) **snap** judgment

She **snapped** a quick picture of the beautiful sunset before it disappeared.

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**.

fieldwork

n. real-world research or study conducted outside a library or laboratory.

(1) meticulous **fieldwork**, (2) perform **fieldwork**

Numerous instances from **fieldwork** show these hypotheses in great detail.

rainforest

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

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

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

dramatically

adv. in a very impressive manner

synonym: greatly, noticeably, suddenly

(1) he confessed **dramatically**, (2) the cabin pressure fell **dramatically**

Life expectancy has grown **dramatically** this century.

visualize

v. to form a mental image or concept of something; to make something visible

synonym: imagine, picture, envision

(1) **visualize** data, (2) **visualize** flying through space
She tried to **visualize** the layout of the new house in her mind.

partnership

n. the state of a cooperative relationship between people or groups, especially in business

synonym: alliance, participation, cooperation

(1) **partnership** across the Atlantic, (2) establish a **partnership**

The military **partnership** between the two countries created tension in the international community.

broad

adj. very wide; general

synonym: wide, expansive, comprehensive

(1) attract **broad** attention, (2) a **broad** mind

He accumulated wealth across a **broad** spectrum of assets.

lobe

n. a rounded projection or division, especially of the brain, lung, or liver

synonym: part, section, division

(1) **lobe** of the liver, (2) frontal **lobe**

The lungs are divided into five **lobes**.

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**.

abundance

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

synonym: plenty, affluence, plentitude

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

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

bacillus

n. a rod-shaped bacterium typically found in soil or water, some of which are responsible for causing disease in humans and animals

synonym: bacterium, microbe, germ

(1) **bacillus** infection, (2) aerobic **bacillus**

Scientists have discovered a new strain of the rod-shaped **bacillus** resistant to antibiotics.

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.

tropical

adj. originating in, located in, or characteristic of the tropics

synonym: equatorial, tropic

(1) **tropical** cyclones, (2) **tropical** islands

Tropical storm Marco is making his way along the coast of Florida.

temperate

adj. mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude

synonym: moderate, mild, genial

(1) **temperate** grassland, (2) **temperate** behavior

The **temperate** climate of the region made it an ideal vacation spot.

grassland

n. a large area of land covered mainly by grass, with few or no trees, and typically used for grazing livestock

synonym: meadow, plain, savanna

(1) endangered **grassland**, (2) vast **grassland**

Meadows and pastures are examples of smaller-scale **grasslands** in many parts of the world.

perspective

n. a confident attitude toward something; a particular style of thinking about something

synonym: viewpoint, standpoint, outlook

(1) a **perspective** view, (2) the **perspective** of the battle
His father's death changed his whole **perspective** on life.

principle

n. a fundamental law or truth that explains or controls how something happens or works

synonym: rule, creed, code

(1) **principle** of treatment, (2) **principle** in business
Efficiency isn't an essential **principle** here; fairness is.

ecology

n. the study of the relationships between living organisms, including humans, and their physical environment

(1) science of **ecology**, (2) the **ecology** of the island

Many companies are now enthusiastically embracing the knowledge of **ecology** for sustainable development.

disperse

v. to spread out or distribute over a broad region, or to cause something to do so

synonym: dissipate, spread, scatter

(1) **disperse** false information, (2) **disperse** the protesters
Before authorities **dispersed** the protesters, they yelled slogans.

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.

mechanical

adj. operated by a machine, relating to or concerned with machinery or tools

synonym: machinelike, automated, automatic

(1) a **mechanical** style of writing, (2) the influence of **mechanical** action

A **mechanical** engineer is still in demand in many companies.

engineer

n. a person whose job is designing, building, or maintaining something such as machines, structures, or software

synonym: architect, creator, builder

(1) a civil **engineer**, (2) **engineer** shortage

The **engineer** will repair my telephone tomorrow morning.

handle

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

synonym: control, manage, deal with

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

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

temperature

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

synonym: climate, warmth, degree

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

temperature

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

physics

n. the science of matter and energy and their interactions

(1) nuclear **physics**, (2) laws of **physics**

He studied the **physics** of radiation.

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.

archipelago

n. a group of islands, often located in a specific area or region

synonym: group of islands, island chain

(1) tropical **archipelago**, (2) volcanic **archipelago**

The Philippines is an **archipelago** made up of over 7,000

islands.

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.

biome

n. a major ecological community characterized by particular plant and animal species adapted to a specific climate and geographic region, such as desert, tundra, or rainforest

synonym: ecosystem, habitat, biota

(1) **biome** conservation, (2) marine **biome**

The rainforest is one of the most diverse **biomes** on the planet.

facet

n. one of the many aspects or sides of a subject or situation, especially when seen from different angles or perspectives; a particular feature or characteristic of something

synonym: aspect, side, angle

(1) **facet** to a question, (2) important **facet**

The different **facets** of his personality make him a complex individual.

cluster

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

synonym: group, aggregation, array

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

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

facilitate

v. to make something easier or more likely to happen

synonym: aid, assist, help

(1) **facilitate** a smooth transition, (2) **facilitate** the process
The company implemented a new software system to **facilitate** employee communication and collaboration.

interaction

n. the act of connecting with someone, mainly when working, playing, or spending time with them

synonym: dealings, exchange, relations

(1) the **interaction** between man and his environment,

(2) **interaction** among human beings

The **interaction** of the two groups is good for brainstorming.

adjacent

adj. next to, close to, or adjoining something

synonym: next, adjoining, neighboring

(1) **adjacent** to his house, (2) **adjacent** houses

Our country has military alliances with **adjacent** countries.

distance

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

synonym: space, gap, span

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

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

geography

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

synonym: landscape, terrain, topography

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

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

tackle

v. to try to deal with a complex problem or situation

synonym: deal with, dive into, work on

(1) **tackle** the issue, (2) help **tackle** climate change

The government is determined to **tackle** sharp inflation.

challenging

adj. difficult, demanding, or requiring a high degree of skill or effort; presenting a difficult problem or obstacle

synonym : difficult, demanding, arduous

(1) **challenging** task, (2) mentally **challenging**

The advanced math problem was **challenging**, but the student was determined to solve it.

acquire

v. to buy or obtain something such as an asset, object, knowledge, etc., for oneself

synonym : attain, earn, catch

(1) **acquire** knowledge, (2) **acquire** a new company

Children **acquire** language at a fantastic rate.

infection

n. a condition in which pathogenic microorganisms or viruses have entered the body

synonym : contagion, disease, transmission

(1) a bacterial **infection**, (2) treat the **infection** with antibiotics

Hospitals must meet various standards to prevent nosocomial **infections**.

collaborate

v. to work with someone else to produce or achieve something

synonym : cooperate, unite, get together

(1) **collaborate** with the police, (2) **collaborate** on a press release

She agreed to **collaborate** with him in creating new artwork.

concerned

adj. feeling worry or interest about something; showing interest or attention

synonym : worried, caring, involved

(1) persons **concerned**, (2) **concerned** citizen

I am **concerned** about the safety of the children playing in the park.

climate

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

synonym : atmosphere, weather, environment

(1) a cold **climate**, (2) effects of **climate** change

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

dedicate

v. to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use

synonym : consecrate, devote, commit

(1) **dedicate** a few hours, (2) **dedicate** a chapter to the subject

He **dedicated** his life to helping others.

sustainable

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

synonym : continuable, enduring, tolerable

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

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

quantitative

adj. relating to, measuring, or expressing in terms of quantity; involving numerical or statistical data

synonym : numerical, measurable

(1) **quantitative** tightening, (2) **quantitative** analysis

The **quantitative** research provided statistical evidence to support the hypothesis.

excite

v. to make someone feel suddenly enthusiastic or eager

synonym : thrill, exhilarate, animate

(1) **excite** the crowd, (2) **excite** rebellion

The news of her promotion **excited** her.

dimension

n. a measurable extent of a particular kind, such as width, height, or length

synonym : extent, measurement, size

(1) new **dimension**, (2) the crosswise **dimension**

Overall **dimensions** are approximately 400x200mm.

ventilate

v. to supply fresh air to a room, building, etc.; to remove stale air from it

synonym: air out, circulate, freshen

(1) **ventilate** my opinion, (2) **ventilate** air

It's important to **ventilate** the room to avoid the buildup of harmful gases.

signature

n. a person's name, often handwritten, written in a distinctive way as a form of identification or authorization; a distinctive feature or characteristic that is a hallmark or identifying mark of something or someone

synonym: autograph, mark, handwriting

(1) **signature** dish, (2) artist's **signature**

The lawyer confirmed that the **signature** on the contract was genuine.

communal

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

synonym: collaborative, combined, collective

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

Communal elections were held in several European countries.

outdo

v. to do better than someone; to surpass

synonym: excel, surpass, outshine

(1) **outdo** him in trickery, (2) **outdo** the competition

He tried to **outdo** his rival by breaking the world record.

vary

v. to become different in terms of size, shape, etc.

synonym: alter, contrast, differ

(1) **vary** according to the age, (2) **vary** directly with the price

Maximum heart rates **vary** a lot for each individual.

experimental

adj. relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have

synonym : empirical, exploratory, observed

(1) **experimental** data, (2) **experimental** design

The product is still in the **experimental** stage.

manipulate

v. to influence or control something or someone to your advantage, often in an unfair or dishonest way

synonym : control, exploit, abuse

(1) **manipulate** figures, (2) vulnerable to **manipulate**

Please tell me how to **manipulate** this computer.

ventilation

n. the provision of fresh air, especially to a room or building

synonym : air circulation, aeration, airing

(1) **ventilation** system, (2) hyper- **ventilation** syndrome

The **ventilation** system in the building needed to be replaced.

operate

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

synonym : work, use, employ

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

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

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.

stagnant

adj. not flowing or circulating; standing still; stagnant water

synonym : still, stagnant, unmoving

(1) **stagnant** car sales, (2) **stagnant** economy

The **stagnant** water in the pond is a breeding ground for mosquitoes.

vent

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

synonym : duct, outlet, venthole

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

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

airborne

adj. moved or conveyed by or through the air; in the air

synonym : flying, aerial, floating

(1) **airborne** troop, (2) **airborne** particles

The amount of **airborne** pollen this year is higher than usual.

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.

passive

adj. characterized by a lack of activity or initiative; not actively participating or engaging in something; marked by a tendency to accept things without resistance or opposition

synonym : inactive, lethargic, apathetic

(1) **passive** response, (2) **passive** vocabulary

The **passive** approach taken by the government towards climate change is concerning.

strategy

n. a detailed plan of action designed to achieve a long-term or overall goal.

synonym : approach, procedure, scenario

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

Our plan includes a comprehensive marketing **strategy**.

louver

n. a window or door with horizontal slats that can be adjusted to allow light and air to pass through while preventing rain, direct sunlight, and sight of the interior

synonym : slat, blade, shutter

(1) horizontal **louver**, (2) **louver** door

The **louver** window allowed air to flow through the room while keeping out the rain.

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.

efficient

adj. performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials

synonym : productive, effective, competent

(1) **efficient** operation, (2) energy- **efficient** appliances

The new washing machine is much more **efficient** than the old one.

relevance

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

synonym : pertinence, applicability, connection

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

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

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**.

ward

n. a room in a hospital for patients requiring special care
synonym: room, division, unit

(1) a children's **ward**, (2) **ward** nurse

The patient was moved to the intensive care **ward** for further treatment.

pathogen

n. a bacterium, virus, or other microorganism that causes disease

synonym: germ, microbe, bacterium

(1) plant **pathogen**, (2) the **pathogen** in the air

mRNA vaccines are approved faster because they do not contain inactivated **pathogens**.

awesome

adj. inspiring fear, admiration, or respect; very good, nice, fun, etc.

synonym: miraculous, marvelous, astounding

(1) **awesome** mental faculty, (2) have an **awesome** birthday

There is a lot of **awesome** nature and food in Hawaii.

bioinformatics

n. the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas

synonym: computational biology, genomics

(1) **bioinformatics** research, (2) **bioinformatics** tools

Bioinformatics algorithms are essential for identifying and analyzing patterns in biological data.

Session 2: Spelling

- | | |
|----------------------------------|--|
| 1. laws of ph____s | <i>n.</i> the science of matter and energy and their interactions |
| 2. pathogenic mi____e | <i>n.</i> a tiny living thing that can only be seen with a microscope and that may cause disease |
| 3. ai____ne troop | <i>adj.</i> moved or conveyed by or through the air; in the air |
| 4. social di____ce | <i>n.</i> the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance |
| 5. co____us of having succeeded | <i>adj.</i> being aware of and able to respond to what is happening around you |
| 6. co____al combination of funds | <i>adj.</i> belonging to or used by a group rather than individuals; for common use |
| 7. aw____e mental faculty | <i>adj.</i> inspiring fear, admiration, or respect; very good, nice, fun, etc. |
| 8. dem____te a difference | <i>v.</i> to display something or give an exhibition to an interested audience |
| 9. bio____ics research | <i>n.</i> the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas |

ANSWERS: 1. physics, 2. microbe, 3. airborne, 4. distance, 5. conscious, 6. communal, 7. awesome, 8. demonstrate, 9. bioinformatics

- | | |
|---|---|
| 10. qua_____ive tightening | <i>adj.</i> relating to, measuring, or expressing in terms of quantity; involving numerical or statistical data |
| 11. ar_____ct of the peace accord | <i>n.</i> a person whose job is to design plans to be used in making something, such as buildings |
| 12. de___e a word | <i>v.</i> to state or explain precisely the nature, scope, or meaning of something |
| 13. op_____e 24 hours a day | <i>v.</i> to work in a particular way; to supervise something |
| 14. develop a st_____gy | <i>n.</i> a detailed plan of action designed to achieve a long-term or overall goal. |
| 15. a minute li_____rm | <i>n.</i> a living organism, especially one that has a distinct shape, structure, or behavior |
| 16. w__d nurse | <i>n.</i> a room in a hospital for patients requiring special care |
| 17. as___ts of social, political, and economic life | <i>n.</i> one part or feature of a situation, problem, subject, etc. |
| 18. meticulous fi_____rk | <i>n.</i> real-world research or study conducted outside a library or laboratory. |
| 19. unp_____ted business opportunity | <i>adj.</i> never having been seen, done, or known before |
| 20. ha___r a resentment | <i>n.</i> an area of water next to the coast where ships and boats are protected from rough water by piers, jetties, and other artificial structures; (verb) keep in one's possession |

ANSWERS: 10. quantitative, 11. architect, 12. define, 13. operate, 14. strategy, 15. life-form, 16. ward, 17. aspect, 18. fieldwork, 19. unprecedented, 20. harbor

21. the atmospheric tem_____re *n.* the degree of hotness or coldness of a thing or place
22. v__y directly with the price *v.* to become different in terms of size, shape, etc.
23. fa__t to a question *n.* one of the many aspects or sides of a subject or situation, especially when seen from different angles or perspectives; a particular feature or characteristic of something
24. in_____ce a child's future *n.* the ability to affect someone's or something's character, growth, or behavior, or the effect itself
25. spread of the vi__s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
26. de_____te a few hours *v.* to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use
27. sus_____le alternative fuel *adj.* able to continue or be continued for a long time
28. re_____ve factors *adj.* considered and evaluated through comparison with something else
29. tropical rai_____st *n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
30. a cl_____r of stars *n.* a group of similar things or people close together, often forming a distinct mass or unit

ANSWERS: 21. temperature, 22. vary, 23. facet, 24. influence, 25. virus, 26. dedicate, 27. sustainable, 28. relative, 29. rainforest, 30. cluster

31. mentally cha_____ng *adj.* difficult, demanding, or requiring a high degree of skill or effort; presenting a difficult problem or obstacle
32. co_____al swimming pool *adj.* belonging to or used by a group rather than individuals; for common use
33. driving di_____ce *n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
34. a person who is unc_____us *adj.* in the state of lacking awareness and the capacity for sensory perception, especially as the result of a head injury or illness
35. many tr_____ons of dollars *n.* the number 1,000,000,000,000; a million million
36. the ch_____ry of soil *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
37. endangered gr_____nd *n.* a large area of land covered mainly by grass, with few or no trees, and typically used for grazing livestock
38. change the ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
39. classic arc_____ure *n.* the art and science of designing and constructing buildings
40. exp_____tal design *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have

ANSWERS: 31. challenging, 32. communal, 33. distance, 34. unconscious, 35. trillion, 36. chemistry, 37. grassland, 38. ecosystem, 39. architecture, 40. experimental

- | | | |
|--|-----------|---|
| 41. ac_____e a new company | <i>v.</i> | to buy or obtain something such as an asset, object, knowledge, etc., for oneself |
| 42. in_____ce the daily life | <i>n.</i> | the ability to affect someone's or something's character, growth, or behavior, or the effect itself |
| 43. rai_____st destruction | <i>n.</i> | a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall |
| 44. vi_____ze flying through space | <i>v.</i> | to form a mental image or concept of something; to make something visible |
| 45. v__t tube | <i>n.</i> | a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion |
| 46. the m__d in a room | <i>n.</i> | the way you feel at a particular time; an angry or impatient state of mind |
| 47. the great di_____ry of the century | <i>n.</i> | the act or process of finding information, a place, or an object, or learning about something that was previously not known |
| 48. re_____nt tax | <i>n.</i> | a person who lives in a particular place or has their home in a place |
| 49. in_____ct with one another | <i>v.</i> | to communicate or react with somebody |
| 50. g_t feelings | <i>n.</i> | the long tube in the body of a person or animal through which food passes when it leaves the stomach; the mental strength or bravery required to do something difficult or unpleasant |

ANSWERS: 41. acquire, 42. influence, 43. rainforest, 44. visualize, 45. vent, 46. mood, 47. discovery, 48. resident, 49. interact, 50. gut

51. aerobic or ____sm *n.* a tiny living thing
52. 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
53. ve _____te my opinion *v.* to supply fresh air to a room, building, etc.; to remove stale air from it
54. horizontal lo ____r *n.* a window or door with horizontal slats that can be adjusted to allow light and air to pass through while preventing rain, direct sunlight, and sight of the interior
55. fu ____s infection *n.* a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive
56. treat the in _____on with antibiotics *n.* a condition in which pathogenic microorganisms or viruses have entered the body
57. l __e of the liver *n.* a rounded projection or division, especially of the brain, lung, or liver
58. si _____re dish *n.* a person's name, often handwritten, written in a distinctive way as a form of identification or authorization; a distinctive feature or characteristic that is a hallmark or identifying mark of something or someone

ANSWERS: 51. organism, 52. process, 53. ventilate, 54. louver, 55. fungus, 56. infection, 57. lobe, 58. signature

59. ex____ge rate *v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
60. a br__d mind *adj.* very wide; general
61. arc____ure design *n.* the art and science of designing and constructing buildings
62. re____ce category *n.* the state or degree of being closely connected or appropriate to the matter at hand
63. perform fi____rk *n.* real-world research or study conducted outside a library or laboratory.
64. attract br__d attention *adj.* very wide; general
65. ac____e knowledge *v.* to buy or obtain something such as an asset, object, knowledge, etc., for oneself
66. the pa____en in the air *n.* a bacterium, virus, or other microorganism that causes disease
67. effects of cl____e change *n.* the weather in a particular location averaged over some long period
68. ou__o the competition *v.* to do better than someone; to surpass
69. help ta____e climate change *v.* to try to deal with a complex problem or situation
70. par____ip across the Atlantic *n.* the state of a cooperative relationship between people or groups, especially in business

ANSWERS: 59. exchange, 60. broad, 61. architecture, 62. relevance, 63. fieldwork, 64. broad, 65. acquire, 66. pathogen, 67. climate, 68. outdo, 69. tackle, 70. partnership

71. co_____us effort *adj.* being aware of and able to respond to what is happening around you
72. g__e cloning *n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.
73. fun_____al education *adj.* forming an essential base or core from which everything else develops or is affected
74. te_____te grassland *adj.* mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude
75. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
76. s__p judgment *v.* to record on photographic film; to make a sudden, sharp sound; (noun) the act of catching an object with the hands
77. an age of ab_____ce *n.* a significant amount of something; the situation in which there is too much of something
78. live in a cl_____r *n.* a group of similar things or people close together, often forming a distinct mass or unit
79. harmless ba_____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

ANSWERS: 71. conscious, 72. gene, 73. fundamental, 74. temperate, 75. lab, 76. snap, 77. abundance, 78. cluster, 79. bacteria

80. extreme tem_____res *n.* the degree of hotness or coldness of a thing or place
81. su_____nd a town *v.* to be all around something or somebody
82. 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
83. li_____rm discovery *n.* a living organism, especially one that has a distinct shape, structure, or behavior
84. professor of ch_____ry *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
85. int_____on among human beings *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
86. cr_____re of habit *n.* a living being, especially an animal
87. the blind g_t *n.* the long tube in the body of a person or animal through which food passes when it leaves the stomach; the mental strength or bravery required to do something difficult or unpleasant
88. g__e expression *n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.
89. st_____nt economy *adj.* not flowing or circulating; standing still; stagnant water

ANSWERS: 80. temperature, 81. surround, 82. discovery, 83. life-form, 84. chemistry, 85. interaction, 86. creature, 87. gut, 88. gene, 89. stagnant

90. new di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
91. ai_____ne particles *adj.* moved or conveyed by or through the air; in the air
92. frontal l___e *n.* a rounded projection or division, especially of the brain, lung, or liver
93. ex_____ge a few friendly words *v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
94. a mec_____al style of writing *adj.* operated by a machine, relating to or concerned with machinery or tools
95. establish a par_____ip *n.* the state of a cooperative relationship between people or groups, especially in business
96. ou__o him in trickery *v.* to do better than someone; to surpass
97. nuclear ph_____s *n.* the science of matter and energy and their interactions
98. bi___e conservation *n.* a major ecological community characterized by particular plant and animal species adapted to a specific climate and geographic region, such as desert, tundra, or rainforest
99. a cold cl_____e *n.* the weather in a particular location averaged over some long period

ANSWERS: 90. dimension, 91. airborne, 92. lobe, 93. exchange, 94. mechanical, 95. partnership, 96. outdo, 97. physics, 98. biome, 99. climate

100. fun_____al rights *adj.* forming an essential base or core from which everything else develops or is affected
101. important fa__t *n.* one of the many aspects or sides of a subject or situation, especially when seen from different angles or perspectives; a particular feature or characteristic of something
102. v__y according to the age *v.* to become different in terms of size, shape, etc.
103. de___e my position *v.* to state or explain precisely the nature, scope, or meaning of something
104. col_____te on a press release *v.* to work with someone else to produce or achieve something
105. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things
106. a children's w__d *n.* a room in a hospital for patients requiring special care
107. ta___e the issue *v.* to try to deal with a complex problem or situation
108. the int_____on between man and his environment *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
109. an in_____le asset *adj.* impossible or nearly impossible to see
110. a peaceful la_____pe *n.* an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance

ANSWERS: 100. fundamental, 101. facet, 102. vary, 103. define, 104. collaborate, 105. biology, 106. ward, 107. tackle, 108. interaction, 109. invisible, 110. landscape

111. co_____st two things *v.* to put in opposition to show or emphasize differences
112. ad_____nt to his house *adj.* next to, close to, or adjoining something
113. aerobic ba_____us *n.* a rod-shaped bacterium typically found in soil or water, some of which are responsible for causing disease in humans and animals
114. plant pa_____en *n.* a bacterium, virus, or other microorganism that causes disease
115. a remote re_____ve *adj.* considered and evaluated through comparison with something else
116. military st_____gy *n.* a detailed plan of action designed to achieve a long-term or overall goal.
117. hold your br____h *n.* the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs
118. the cabin pressure fell dra_____lly *adv.* in a very impressive manner
119. the crosswise di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
120. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
121. science of ec_____y *n.* the study of the relationships between living organisms, including humans, and their physical environment
122. have no re_____ce *n.* the state or degree of being closely connected or appropriate to the matter at hand
123. lo____r door *n.* a window or door with horizontal slats that can be adjusted to allow light and air to pass through while preventing rain, direct sunlight, and sight of the interior

ANSWERS: 111. contrast, 112. adjacent, 113. bacillus, 114. pathogen, 115. relative, 116. strategy, 117. breath, 118. dramatically, 119. dimension, 120. complexity, 121. ecology, 122. relevance, 123. louver

124. volcanic v__t *n.* a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion
125. a strain of vi__s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
126. unc_____us bias *adj.* in the state of lacking awareness and the capacity for sensory perception, especially as the result of a head injury or illness
127. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
128. burning of fo___l fuels *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
129. di_____se the protesters *v.* to spread out or distribute over a broad region, or to cause something to do so
130. co_____ed citizen *adj.* feeling worry or interest about something; showing interest or attention
131. ef_____nt operation *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
132. pr_____le cause of a fire *adj.* likely to happen or likely to be true
133. nontechnical as___ts of the job *n.* one part or feature of a situation, problem, subject, etc.

ANSWERS: 124. vent, 125. virus, 126. unconscious, 127. engineer, 128. fossil, 129. disperse, 130. concerned, 131. efficient, 132. probable, 133. aspect

134. pr____le outcome *adj.* likely to happen or likely to be true
135. va____m packing *n.* a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
136. an ab_____ce of examples *n.* a significant amount of something; the situation in which there is too much of something
137. ba____us infection *n.* a rod-shaped bacterium typically found in soil or water, some of which are responsible for causing disease in humans and animals
138. pa_____e response *adj.* characterized by a lack of activity or initiative; not actively participating or engaging in something; marked by a tendency to accept things without resistance or opposition
139. cha_____ng task *adj.* difficult, demanding, or requiring a high degree of skill or effort; presenting a difficult problem or obstacle
140. col_____te with the police *v.* to work with someone else to produce or achieve something
141. principles of sus_____le development *adj.* able to continue or be continued for a long time
142. volcanic arc_____go *n.* a group of islands, often located in a specific area or region
143. fac_____te the process *v.* to make something easier or more likely to happen
144. a per_____ve view *n.* a confident attitude toward something; a particular style of thinking about something

ANSWERS: 134. probable, 135. vacuum, 136. abundance, 137. bacillus, 138. passive, 139. challenging, 140. collaborate, 141. sustainable, 142. archipelago, 143. facilitate, 144. perspective

145. exp_____tal data *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
146. the influence of mec_____al action *adj.* operated by a machine, relating to or concerned with machinery or tools
147. symbiotic fu____s *n.* a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive
148. br____h of wind *n.* the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs
149. tr_____al islands *adj.* originating in, located in, or characteristic of the tropics
150. the st_____re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
151. ha____e a precious object *v.* to deal with a situation, problem, or strong emotion
152. artificial cr_____re *n.* a living being, especially an animal
153. fac_____te a smooth transition *v.* to make something easier or more likely to happen
154. bo__t the economy *v.* to improve, raise, or increase something
155. a bacterial in_____on *n.* a condition in which pathogenic microorganisms or viruses have entered the body

ANSWERS: 145. experimental, 146. mechanical, 147. fungus, 148. breath, 149. tropical, 150. structure, 151. handle, 152. creature, 153. facilitate, 154. boost, 155. infection

156. group of or_____s *n.* a tiny living thing
157. de_____te a chapter to the subject *v.* to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use
158. ve_____te air *v.* to supply fresh air to a room, building, etc.; to remove stale air from it
159. a stone wall su_____nds the palace *v.* to be all around something or somebody
160. ven_____on system *n.* the provision of fresh air, especially to a room or building
161. economic ge_____hy *n.* a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth
162. 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
163. vi_____ze data *v.* to form a mental image or concept of something; to make something visible
164. landscape ar_____ct *n.* a person whose job is to design plans to be used in making something, such as buildings
165. im___e from criminal prosecution *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
166. co_____st with a decade ago *v.* to put in opposition to show or emphasize differences

ANSWERS: 156. organism, 157. dedicate, 158. ventilate, 159. surround, 160. ventilation, 161. geography, 162. structure, 163. visualize, 164. architect, 165. immune, 166. contrast

167. marine bi__e *n.* a major ecological community characterized by particular plant and animal species adapted to a specific climate and geographic region, such as desert, tundra, or rainforest
168. tropical arc_____go *n.* a group of islands, often located in a specific area or region
169. ge_____hy class *n.* a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth
170. the DNA se_____ce *n.* a series of related events, actions, numbers, etc., which have a particular order
171. the se_____ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
172. vast gr_____nd *n.* a large area of land covered mainly by grass, with few or no trees, and typically used for grazing livestock
173. the cell of the im___e system *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
174. vulnerable to man_____te *v.* to influence or control something or someone to your advantage, often in an unfair or dishonest way
175. di_____se false information *v.* to spread out or distribute over a broad region, or to cause something to do so
176. a re_____nt of the city *n.* a person who lives in a particular place or has their home in a place

ANSWERS: 167. biome, 168. archipelago, 169. geography, 170. sequence, 171. sequence, 172. grassland, 173. immune, 174. manipulate, 175. disperse, 176. resident

177. st_____nt car sales *adj.* not flowing or circulating; standing still; stagnant water
178. la_____pe painting *n.* an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance
179. energy-ef_____nt appliances *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
180. qua_____ive analysis *adj.* relating to, measuring, or expressing in terms of quantity; involving numerical or statistical data
181. manually op_____e a machine *v.* to work in a particular way; to supervise something
182. bo__t flexibility *v.* to improve, raise, or increase something
183. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
184. mi_____es sterilizer *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
185. ad_____nt houses *adj.* next to, close to, or adjoining something
186. pa_____e vocabulary *adj.* characterized by a lack of activity or initiative; not actively participating or engaging in something; marked by a tendency to accept things without resistance or opposition

ANSWERS: 177. stagnant, 178. landscape, 179. efficient, 180. quantitative, 181. operate, 182. boost, 183. lab, 184. microbe, 185. adjacent, 186. passive

187. a sheltered ha___r *n.* an area of water next to the coast where ships and boats are protected from rough water by piers, jetties, and other artificial structures; (verb) keep in one's possession
188. pr_____le of treatment *n.* a fundamental law or truth that explains or controls how something happens or works
189. marine ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
190. tr_____al cyclones *adj.* originating in, located in, or characteristic of the tropics
191. tr_____on cubic feet *n.* the number 1,000,000,000,000; a million million
192. pr_____le in business *n.* a fundamental law or truth that explains or controls how something happens or works
193. pathogenic ba_____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
194. dem_____te mastery *v.* to display something or give an exhibition to an interested audience
195. persons co_____ed *adj.* feeling worry or interest about something; showing interest or attention
196. he confessed dra_____lly *adv.* in a very impressive manner

ANSWERS: 187. harbor, 188. principle, 189. ecosystem, 190. tropical, 191. trillion, 192. principle, 193. bacteria, 194. demonstrate, 195. concerned, 196. dramatically

197. the ec____y of the island *n.* the study of the relationships between living organisms, including humans, and their physical environment
198. 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
199. artist's si____re *n.* a person's name, often handwritten, written in a distinctive way as a form of identification or authorization; a distinctive feature or characteristic that is a hallmark or identifying mark of something or someone
200. cell and molecular bi____y *n.* the scientific study of life and the natural processes of living things
201. a civil en____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
202. ex____e the crowd *v.* to make someone feel suddenly enthusiastic or eager
203. hyper-ven____on syndrome *n.* the provision of fresh air, especially to a room or building
204. bio____ics tools *n.* the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas

ANSWERS: 197. ecology, 198. process, 199. signature, 200. biology, 201. engineer, 202. excite, 203. ventilation, 204. bioinformatics

205. s__p a whip *v.* to record on photographic film; to make a sudden, sharp sound; (noun) the act of catching an object with the hands
206. in an ugly m__d *n.* the way you feel at a particular time; an angry or impatient state of mind
207. ha___ed the incident *v.* to deal with a situation, problem, or strong emotion
208. in_____ct directly with customers *v.* to communicate or react with somebody
209. te_____te behavior *adj.* mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude
210. the per_____ve of the battle *n.* a confident attitude toward something; a particular style of thinking about something
211. ex___e rebellion *v.* to make someone feel suddenly enthusiastic or eager
212. man_____te figures *v.* to influence or control something or someone to your advantage, often in an unfair or dishonest way
213. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
214. have an aw_____e birthday *adj.* inspiring fear, admiration, or respect; very good, nice, fun, etc.
215. a fo___l leaf *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock

ANSWERS: 205. snap, 206. mood, 207. handle, 208. interact, 209. temperate, 210. perspective, 211. excite, 212. manipulate, 213. complexity, 214. awesome, 215. fossil

216. unpre_____ted boom

adj. never having been seen, done, or known before

217. in_____le stars

adj. impossible or nearly impossible to see

218. va___m cleaner

n. a space empty of matter; a device or tool used for cleaning or removing debris by creating suction

ANSWERS: 216. unprecedented, 217. invisible, 218. vacuum

Session 3: Fill in the Blanks

1. The lungs are divided into five _____.
n. a rounded projection or division, especially of the brain, lung, or liver
2. Scientists are searching for signs of _____ on other planets.
n. a living organism, especially one that has a distinct shape, structure, or behavior
3. He is familiar with _____ and biology.
n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions
4. The new washing machine is much more _____ than the old one.
adj. performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
5. The government is determined to _____ sharp inflation.
v. to try to deal with a complex problem or situation
6. The deep sea _____ was unlike anything the scientists had ever seen before.
n. a living being, especially an animal
7. Recent electoral shocks have shaken the political _____ in Europe.
n. an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance

ANSWERS: 1. lobes, 2. life-form, 3. chemistry, 4. efficient, 5. tackle, 6. creature, 7. landscape

8. The tsunami swamped every boat in the _____.
- n.* an area of water next to the coast where ships and boats are protected from rough water by piers, jetties, and other artificial structures; (verb) keep in one's possession
9. The vaccination does not necessarily make you completely _____.
- adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
10. 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
11. One light year is nearly 6 _____ miles.
- n.* the number 1,000,000,000,000; a million million
12. To advance this discussion, we must _____ "success" rigorously.
- v.* to state or explain precisely the nature, scope, or meaning of something
13. We all should learn how to _____ stress.
- v.* to deal with a situation, problem, or strong emotion
14. _____ storm Marco is making his way along the coast of Florida.
- adj.* originating in, located in, or characteristic of the tropics
15. He became _____ that he was being followed.
- adj.* being aware of and able to respond to what is happening around you

ANSWERS: 8. harbor, 9. immune, 10. process, 11. trillion, 12. define, 13. handle, 14. Tropical, 15. conscious

16. It seems _____ that he has forgotten our scheduled meeting.
adj. likely to happen or likely to be true
17. Our country has military alliances with _____ countries.
adj. next to, close to, or adjoining something
18. He _____ his life to helping others.
v. to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use
19. 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
20. The rainforest is one of the most diverse _____ on the planet.
n. a major ecological community characterized by particular plant and animal species adapted to a specific climate and geographic region, such as desert, tundra, or rainforest
21. It's intriguing to compare and _____ the two authors.
v. to put in opposition to show or emphasize differences
22. His gaffe spoiled the _____ of the dinner party.
n. the way you feel at a particular time; an angry or impatient state of mind
23. Our plan includes a comprehensive marketing _____.
n. a detailed plan of action designed to achieve a long-term or overall goal.
24. Overall _____ are approximately 400x200mm.
n. a measurable extent of a particular kind, such as width, height, or length

ANSWERS: 16. probable, 17. adjacent, 18. dedicated, 19. complexity, 20. biomes, 21. contrast, 22. mood, 23. strategy, 24. dimensions

25. The _____ system in the building needed to be replaced.
n. the provision of fresh air, especially to a room or building
26. 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
27. The building _____ tried to build the house above the tree.
n. a person whose job is to design plans to be used in making something, such as buildings
28. I know his _____ habit that he touches his face when he lies.
adj. in the state of lacking awareness and the capacity for sensory perception, especially as the result of a head injury or illness
29. His professional experience includes all _____ of media production.
n. one part or feature of a situation, problem, subject, etc.
30. He accumulated wealth across a _____ spectrum of assets.
adj. very wide; general
31. My sister and I frequently _____ books, as we love reading.
v. to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
32. Many companies are now enthusiastically embracing the knowledge of _____ for sustainable development.
n. the study of the relationships between living organisms, including humans, and their physical environment

ANSWERS: 25. ventilation, 26. ecosystem, 27. architect, 28. unconscious, 29. aspects, 30. broad, 31. exchange, 32. ecology

33. The military _____ between the two countries created tension in the international community.
- n.* the state of a cooperative relationship between people or groups, especially in business
34. 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
35. He gave _____ to his anger by playing the guitar.
- n.* a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion
36. The _____ climate of the region made it an ideal vacation spot.
- adj.* mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude
37. Maximum heart rates _____ a lot for each individual.
- v.* to become different in terms of size, shape, etc.
38. The new service helped _____ net income by 10%.
- v.* to improve, raise, or increase something
39. The _____ water in the pond is a breeding ground for mosquitoes.
- adj.* not flowing or circulating; standing still; stagnant water
40. The advanced math problem was _____ but the student was determined to solve it.
- adj.* difficult, demanding, or requiring a high degree of skill or effort; presenting a difficult problem or obstacle

ANSWERS: 33. partnership, 34. discovery, 35. vent, 36. temperate, 37. vary, 38. boost, 39. stagnant, 40. challenging,

41. mRNA vaccines are approved faster because they do not contain inactivated _____.
- n.* a bacterium, virus, or other microorganism that causes disease
42. The _____ will repair my telephone tomorrow morning.
- n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
43. Human behavior has _____ characteristics.
- adj.* forming an essential base or core from which everything else develops or is affected
44. The phenomenon is _____ at optical wavelengths.
- adj.* impossible or nearly impossible to see
45. The amount of _____ pollen this year is higher than usual.
- adj.* moved or conveyed by or through the air; in the air
46. Visa renewal for _____ foreigners in this country is once every five years.
- n.* a person who lives in a particular place or has their home in a place
47. We do move forward with those tasks in _____ next week.
- n.* a series of related events, actions, numbers, etc., which have a particular order
48. The marathon runner covered a long _____ in a short amount of time.
- n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

ANSWERS: 41. pathogens, 42. engineer, 43. fundamental, 44. invisible, 45. airborne, 46. resident, 47. sequence, 48. distance

49. _____ elections were held in several European countries.
adj. belonging to or used by a group rather than individuals; for common use
50. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
n. a workplace for the conduct of scientific research; a laboratory
51. Efficiency isn't an essential _____ here; fairness is.
n. a fundamental law or truth that explains or controls how something happens or works
52. A diversified plant species generally enhances beneficial _____ populations.
n. a tiny living thing
53. Children _____ language at a fantastic rate.
v. to buy or obtain something such as an asset, object, knowledge, etc., for oneself
54. How can you _____ that the earth is a sphere?
v. to display something or give an exhibition to an interested audience
55. A _____ engineer is still in demand in many companies.
adj. operated by a machine, relating to or concerned with machinery or tools
56. The lawyer confirmed that the _____ on the contract was genuine.
n. a person's name, often handwritten, written in a distinctive way as a form of identification or authorization; a distinctive feature or characteristic that is a hallmark or identifying mark of something or someone
57. She _____ a quick picture of the beautiful sunset before it disappeared.
v. to record on photographic film; to make a sudden, sharp sound; (noun) the act of catching an object with the hands

ANSWERS: 49. Communal, 50. lab, 51. principle, 52. organism, 53. acquire, 54. demonstrate, 55. mechanical, 56. signature, 57. snapped

58. Cities around the world set records for highest _____ this summer.
n. the degree of hotness or coldness of a thing or place
59. Certain types of _____ can be toxic to humans, causing severe illness if ingested.
n. a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive
60. A healthy farm provides an _____ of food.
n. a significant amount of something; the situation in which there is too much of something
61. Most countries prohibit sexual activity between certain close _____.
adj. considered and evaluated through comparison with something else
62. 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
63. The _____ of this information to the current situation needs to be investigated.
n. the state or degree of being closely connected or appropriate to the matter at hand
64. The destruction of the _____ is a ticking time bomb for the Earth.
n. a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
65. He studied the _____ of radiation.
n. the science of matter and energy and their interactions

ANSWERS: 58. temperatures, 59. fungus, 60. abundance, 61. relatives, 62. structure, 63. relevance, 64. rainforest, 65. physics

66. She agreed to _____ with him in creating new artwork.

v. to work with someone else to produce or achieve something

67. She did well on her _____ exam.

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

68. Please use the _____ to clean up the mess on the floor.

n. a space empty of matter; a device or tool used for cleaning or removing debris by creating suction

69. He bated his _____ when talking about this affair.

n. the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs

70. Please tell me how to _____ this computer.

v. to influence or control something or someone to your advantage, often in an unfair or dishonest way

71. His father's death changed his whole _____ on life.

n. a confident attitude toward something; a particular style of thinking about something

72. Life expectancy has grown _____ this century.

adv. in a very impressive manner

73. 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

ANSWERS: 66. collaborate, 67. geography, 68. vacuum, 69. breath, 70. manipulate, 71. perspective, 72. dramatically, 73. virus

74. It was the _____ of a dinosaur tooth.

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

75. On three sides, mountains _____ the settlement.

- v.* to be all around something or somebody

76. The _____ approach taken by the government towards climate change is concerning.

- adj.* characterized by a lack of activity or initiative; not actively participating or engaging in something; marked by a tendency to accept things without resistance or opposition

77. A defective _____ is responsible for the disease.

- n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.

78. The different _____ of his personality make him a complex individual.

- n.* one of the many aspects or sides of a subject or situation, especially when seen from different angles or perspectives; a particular feature or characteristic of something

79. It's important to _____ the room to avoid the buildup of harmful gases.

- v.* to supply fresh air to a room, building, etc.; to remove stale air from it

80. The Philippines is an _____ made up of over 7,000 islands.

- n.* a group of islands, often located in a specific area or region

81. A _____ of grapes hung from the vine.

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

ANSWERS: 74. fossil, 75. surround, 76. passive, 77. gene, 78. facets, 79. ventilate, 80. archipelago, 81. cluster

82. The product is still in the _____ stage.
adj. relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
83. The city is known for its impressive _____ and beautiful old buildings.
n. the art and science of designing and constructing buildings
84. _____ algorithms are essential for identifying and analyzing patterns in biological data.
n. the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas
85. The _____ of the two groups is good for brainstorming.
n. the act of connecting with someone, mainly when working, playing, or spending time with them
86. The news of her promotion _____ her.
v. to make someone feel suddenly enthusiastic or eager
87. He told me a _____ truth about my parent's death.
n. the long tube in the body of a person or animal through which food passes when it leaves the stomach; the mental strength or bravery required to do something difficult or unpleasant
88. She tried to _____ the layout of the new house in her mind.
v. to form a mental image or concept of something; to make something visible
89. _____ amounts of heckling and slogan-shouting took place throughout the event.
adj. never having been seen, done, or known before

ANSWERS: 82. experimental, 83. architecture, 84. Bioinformatics, 85. interaction, 86. excited, 87. gut-wrenching, 88. visualize, 89. Unprecedented

90. He tried to _____ his rival by breaking the world record.

v. to do better than someone; to surpass

91. Hospitals must meet various standards to prevent nosocomial _____.

n. a condition in which pathogenic microorganisms or viruses have entered the body

92. The former emperor had a particular _____ even after he abdicated.

n. the ability to affect someone's or something's character, growth, or behavior, or the effect itself

93. The _____ window allowed air to flow through the room while keeping out the rain.

n. a window or door with horizontal slats that can be adjusted to allow light and air to pass through while preventing rain, direct sunlight, and sight of the interior

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

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

95. This machine is too difficult to _____ for me.

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

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

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

97. Before authorities _____ the protesters, they yelled slogans.

v. to spread out or distribute over a broad region, or to cause something to do so

ANSWERS: 90. outdo, 91. infections, 92. influence, 93. louver, 94. sustainable, 95. operate, 96. Climate, 97. dispersed

98. _____ prevalent in hospitals are often resistant to antibiotics.
- n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
99. 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
100. Numerous instances from _____ show these hypotheses in great detail.
- n.* real-world research or study conducted outside a library or laboratory.
101. He should _____ more with his colleagues.
- v.* to communicate or react with somebody
102. The patient was moved to the intensive care _____ for further treatment.
- n.* a room in a hospital for patients requiring special care
103. There is a lot of _____ nature and food in Hawaii.
- adj.* inspiring fear, admiration, or respect; very good, nice, fun, etc.
104. The _____ research provided statistical evidence to support the hypothesis.
- adj.* relating to, measuring, or expressing in terms of quantity; involving numerical or statistical data
105. Meadows and pastures are examples of smaller-scale _____ in many parts of the world.
- n.* a large area of land covered mainly by grass, with few or no trees, and typically used for grazing livestock

ANSWERS: 98. Bacteria, 99. biology, 100. fieldwork, 101. interact, 102. ward, 103. awesome, 104. quantitative, 105. grasslands

106. The company implemented a new software system to _____ employee communication and collaboration.

v. to make something easier or more likely to happen

107. Scientists have discovered a new strain of the rod-shaped _____ resistant to antibiotics.

n. a rod-shaped bacterium typically found in soil or water, some of which are responsible for causing disease in humans and animals

108. _____ thrive on the surface of the human skin.

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

109. I am _____ about the safety of the children playing in the park.

adj. feeling worry or interest about something; showing interest or attention

ANSWERS: 106. facilitate, 107. bacillus, 108. Microbes, 109. concerned