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Vocabulary Builder Reference from...

Deborah Gordon: What ants teach us about the brain, cancer and the Internet | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

ant *n.* a very small insect that lives under the ground or in a mound in highly organized groups

synonym : pismire, insect

(1) a white **ant**, (2) **ant** bite

We can find many large **ant** mounds in this area.

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

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

This region is predominantly **desert**.

silicon *n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers

(1) **silicon** wafer, (2) crystalline **silicon**

Silicon is the second most abundant element on earth after oxygen.

valley *n.* a long depression on the surface of the land, which typically contains a river

synonym : canyon, gorge, dale

(1) **valley** bottom, (2) basin-shaped **valley**

The **valley** had received a mild snowfall the previous week.

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.

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**.

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**.

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.

cancer

n. abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

synonym: tumor, carcinoma, malignancy

(1) **cancer** diagnosis, (2) **cancer** research

Breast **cancer** is the most common type of cancer in women.

colony

n. a country or an area that is governed by a more powerful country that is often far away

synonym: settlement, territory, plantation

(1) plant a **colony**, (2) a **colony** of bacteria

The **colony** declared its independence and became a republic.

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.

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.

reproductive

adj. connected with the process of reproduction; relating to reproducing babies, young animals, or plants

synonym: procreative, generative

(1) **reproductive** ability, (2) during **reproductive** period

This documentary deals with the **reproductive** biology of the buffalo.

instruction

n. detailed direction, order, etc., on how to do or use something

synonym: education, direction, guidance

(1) individual **instruction**, (2) follow his **instructions**

They needed further **instruction** to perform their duties efficiently.

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.

antenna

n. an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects

synonym: feeler, receiver

(1) **antenna** of insect, (2) extend the TV **antenna**

He had a special **antenna** for public relations

nest

n. a structure in which animals lay their eggs or give birth to their young

synonym: roost, perch, burrow

(1) bird's **nest**, (2) a **nest** of thieves

The female birds build a **nest** and lay their eggs in May.

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**.

arena

n. a large, flat area, often circular or oval-shaped, designed to showcase theatre, musical performances, or sporting events

synonym: stadium, theatre, auditorium

(1) indoor **arena**, (2) political **arena**

The company is planning to build a 20,000-seat **arena** with a retractable roof.

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.

transmit

v. to send or forward an electronic signal; to pass something from one person or thing to another

synonym : convey, share, dispatch

(1) **transmit** the disease, (2) **transmit** information

Parents often **transmit** their characteristics to their children.

complicated

adj. involving a lot of different things or parts in a way that is difficult to understand or analyze

synonym : complex, convoluted, intricate

(1) a **complicated** process, (2) become increasingly **complicated**

He did **complicated** pen-and-ink drawings in just a few days.

constantly

adv. all the time

synonym : continuously, always, frequently

(1) a **constantly** innovative enterprise, (2) a **constantly** varying mind

The mobile application industry is **constantly** changing.

shifting

adj. constantly changing or moving

synonym : unfirm, shifty, fluctuating

(1) **shifting** balance, (2) continuously **shifting** landscape

Trends in the fashion industry are so **shifting** that it is challenging to keep up with them.

conceivable

adj. imaginable or possible to understand or believe in the mind

synonym : believable, imaginable, probable

(1) **conceivable** way, (2) **conceivable** emergency

It is challenging to defend every **conceivable** target.

scarce

adj. not abundant or plentiful, and therefore not easy to find or obtain

synonym : rare, limited, sparse

(1) **scarce** resources, (2) capital- **scarce** country

Fresh water is becoming increasingly **scarce** in many parts of

the world.

seed

n. a small, hard, often round, a reproductive structure that contains a plant's genetic material and is capable of growing into a new plant

synonym : germ, kernel, ovule

(1) a **seed** coat, (2) **seed** money

He planted the **seed** in the soil and waited for it to sprout.

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**.

outgoing

adj. friendly and energetic in talking to others; tending to go out or away

synonym : extroverted, sociable, friendly

(1) **outgoing** attitude, (2) **outgoing** mail

She was an **outgoing** person and loved meeting new people and trying new things.

tunnel

n. an underground or underwater passage, typically for trains or cars

synonym : passageway, underground passage

(1) **tunnel** construction work, (2) **tunnel** disease

The workers had to dig through solid rock to create the vehicular **tunnel** allowing the cars to pass through the mountain.

function

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

synonym : purpose, mapping, job

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

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

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.

variation

n. the act or state of changing; a difference or change in the way something is done, made or said

synonym: fluctuation, change, variation

(1) **variation** of temperature, (2) gene **variation**

There is a lot of **variation** in the colors of flowers in the garden.

trade-off

n. a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise

synonym: compromise, balance, exchange

(1) **trade-off** problem, (2) environmental **trade-off**

There was a **trade-off** between speed and accuracy in the task.

neuron

n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body

synonym: nerve cell

(1) excite the **neurons**, (2) **neuron** cell body

Our body transfers information along each **neuron** using an electrical impulse.

neuroscience

n. the scientific study of the function, structure, and disorder of the brain and the nervous system

(1) the branch of **neuroscience**, (2) a theoretical concept in **neuroscience**

Our university is famous for its professors, who are well-versed in behavioral **neuroscience**.

stimulation

n. the act of arousing interest or activity in something; the action of providing a stimulus

synonym: activation, arousal, excitation

(1) **stimulation** of the economy, (2) **stimulation** of the senses

The **stimulation** of certain chemicals activates the brain's reward system.

decide

v. to make up someone's mind about something; to come to a conclusion or judgment after considering options

synonym: choose, determine, settle

(1) **decide** a question, (2) **decide** on a course of action

She couldn't **decide** whether to order the pizza or the pasta for dinner.

analogous

adj. similar or equivalent in some respects, typically as a result of functioning in a similar way

synonym: similar, comparable, equivalent

(1) **analogous** fashion, (2) entirely **analogous**

The human heart is **analogous** to a pump in a plumbing system.

slightly

adv. in a small degree or extent; a little

synonym: barely, narrowly, scarcely

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

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

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.

electrical

adj. relating to electricity

(1) an **electrical** storm, (2) degree in **electrical** engineering

Actuators convert **electrical** pulses into motion.

stimulus

n. something that causes growth or arouses action

synonym: incitement, inspiration, motivation

(1) a response to a **stimulus**, (2) economic **stimulus**

This book provides children with ideas and a **stimulus** for outside recreation.

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.

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.

symbol

n. something visible that is used to represent something else

synonym: mark, character, insignia

(1) **symbol** color, (2) **symbol** for happiness

The dragon is considered a **symbol** of bravery.

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?

genetic

adj. of or relating to genes (= parts of the DNA in cells) or the science of genes

synonym: hereditary, genetical, inborn

(1) have **genetic** testing, (2) a **genetic** disorder

Understanding protein folding is a vital step in deciphering the

genetic code.

amazing

adj. extremely surprising, especially in a way that you like or admire

synonym: exceptional, extraordinary, wonderful

(1) **amazing** advances, (2) the most **amazing** feeling

The golfer recorded an **amazing** distance.

grandchild

n. a child of someone's son or daughter

synonym: offspring, descendant, progeny

(1) **grandchild-grandparent** relationship, (2) **grandchild** development

The grandparents take care of their **grandchild** while the parents are at work.

resemble

v. to look like or be similar to someone or something

synonym: look like, be similar to

(1) **resemble** each other, (2) **resemble** her mother

The brothers **resemble** each other in the hobby.

decision

n. the act or process of making up someone's mind about something; a choice or judgment reached after considering options

synonym: choice, determination, judgment

(1) **decision** authority, (2) a selfish **decision**

She was struggling to make a **decision** between two job offers.

underlying

adj. significant as a cause or basis of something but not immediately apparent or stated clearly

synonym: fundamental, latent, basic

(1) an **underlying** motive, (2) an **underlying** cause of an accident

The **underlying** principle of every business was identical.

resemblance

n. similarity in appearance or exterior or superficial details
synonym: closeness, likeness, similarity

(1) striking **resemblance**, (2) faint **resemblance**

The **resemblance** between Anna and her mother was astonishing.

severe

adj. extremely serious or bad in feeling, manner, or strict and harsh; extremely strong or vigorous

synonym: harsh, relentless, powerful

(1) **severe** heat, (2) a **severe** case of pneumonia

The senator received **severe** criticism from his opponent.

drought

n. a long period of time during which there is very little or no rain, leading to a shortage of water and often causing damage to crops and other vegetation

synonym: dryness, aridity, water shortage

(1) periods of **drought**, (2) **drought** conditions

The region has been experiencing a severe **drought**, leading to water shortages and crop failures.

conserve

v. to protect something, especially the natural environment or culture, from change, damage, or destruction

synonym: preserve, save, maintain

(1) means to **conserve** energy, (2) **conserve** coal resources

Children must be taught to **conserve** our natural environment.

sacrifice

n. the act of killing an animal or person or surrendering a possession as an offering to a deity; (verb) to give up something important or valuable to help another person or get or do something that seems more important

synonym: forfeit, immolation, gift

(1) small **sacrifice** for a great cause, (2) **sacrifice** anything to get ahead

You cannot accomplish great things without a **sacrifice** of your time or money.

trickle

v. to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities

synonym: dribble, flow, seep

(1) **trickle** down my cheek, (2) **trickle** from his eyes

Water was beginning to **trickle** into the basement after the heavy rain.

matriarch

n. a woman who is the head of a family or social group; a woman who is the founder or dominant member of a group

synonym: leader, head, founder

(1) ruled by a **matriarch**, (2) **matriarch** figure

The **matriarch** of the family was known for her wisdom and guidance.

ongoing

adj. continuing to exist or develop, or currently happening

synonym: continuous, current, proceeding

(1) still **ongoing**, (2) **ongoing** support

The new prime minister has vowed to take measures against the **ongoing** economic crisis.

algorithm

n. a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

synonym: logic, method, rule

(1) the RSA **algorithm**, (2) **algorithm** for image processing

We can evaluate the performance of an **algorithm** in terms of computation time.

analogy

n. a comparison between similar things that have similar aspects, often used to help explain a principle or concept

synonym: metaphor, comparison, parallel

(1) draw **analogy**, (2) historical **analogy**

Some kinds of machine learning models show an **analogy** to how people learn.

bandwidth

n. the amount of data that can be transmitted or processed at one time often used to describe the capacity of electronic communication or computing systems

synonym : capacity, data transfer rate, network speed

(1) **bandwidth** allocation, (2) increase **bandwidth**

I don't have the **bandwidth** to take on any new projects, as I'm already working on multiple assignments.

invention

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

synonym : creation, design, innovation

(1) the **invention** of new techniques, (2) common **invention**

Necessity is the mother of **invention**.

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.

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.

humid

adj. having a high amount of moisture or water vapor in the air; damp; muggy

synonym : damp, muggy, moist

(1) **humid** climate, (2) uncomfortably **humid**

The air was so **humid** that my clothes felt damp.

abundant

adj. present in great quantity

synonym : ample, plentiful, generative

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

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

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.

competition

n. a situation in which someone is attempting to beat or outperform another

synonym : contest, match, fight

(1) the first round of the **competition**, (2) intraspecific **competition**

Global **competition** is rising in virtually every industry.

opposition

n. the act of disagreeing or resisting; the state of strong disagreement

synonym : resistance, hostility, antagonism

(1) **opposition** campaign, (2) meet with **opposition**

The **opposition** party strongly disagreed with the government's proposed legislation.

negative

adj. having the quality of something bad or harmful;
expressing refusal

synonym : minus, adverse, pessimistic

(1) have a **negative** effect, (2) a **negative** number

The movie has received almost universally **negative** criticism.

circuit

n. (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area

synonym : route, course, rotation

(1) **circuit** breaker, (2) federal **circuit** courts

An intelligent battery has a voltage monitoring **circuit**.

abdomen

n. the part of the body between the chest and pelvis that contains the stomach, intestines, liver, pancreas, and other organs; the posterior part of an insect's body,

typically divided into segments

synonym : belly, gut, tummy

(1) **abdomen** pain, (2) insect **abdomen**

The weightlifter used his strong **abdomen** muscles to lift the heavy barbell.

threat

n. a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation

synonym : menace, danger, hazard

(1) economic **threat**, (2) environmental **threat**

The **threat** of severe weather prompted the city to issue an evacuation warning.

temporarily

adv. for a limited time only or not permanently

synonym : for a time

(1) a hut made **temporarily**, (2) **temporarily** suspend the production

Some athletes take anabolic steroids to increase muscle size **temporarily**.

immediate

adj. happening or done without delay or occurring shortly after something else

synonym : prompt, quick, instantaneous

(1) take **immediate** effect, (2) the **immediate** past

Both forts were subject to **immediate** attacks.

permanent

adj. lasting for a long time without essential change

synonym : lasting, ceaseless, endless

(1) literature of **permanent** value, (2) **permanent** life insurance

She is searching for a **permanent** residence.

firewall

n. (in computing) a technological barrier designed to stop people from seeing or using the information on a

computer without permission but still allow them to receive information that is sent to them

(1) **firewall** protection, (2) **firewall** application

Public cloud computing should provide a secure **firewall** against hackers.

fortress

n. a large and strongly built structure, typically with high walls and a moat, used as a military defense or for protection against attackers

synonym : castle, citadel, stronghold

(1) **fortress** wall, (2) military **fortress**

The ancient **fortress** was built on a hill to give the defenders a strategic advantage.

sophisticated

adj. having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion

synonym : refined, cultured, worldly

(1) **sophisticated** look, (2) a **sophisticated** lifestyle

Marketing strategies are growing more **sophisticated**.

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.

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.

minimal

adj. tiny in amount; the least possible

synonym: tiniest, essential, minimum

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

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

invasive

adj. spreading very quickly, and often aggressively, and difficult to stop

synonym: aggressive, rampant, spreading

(1) **invasive** breast cancer, (2) **invasive** species

The **invasive** disease can spread quickly and potentially cause a global pandemic.

expand

v. to increase or to make something greater in size, number, or importance

synonym: extend, grow, boost

(1) **expand** a lineup, (2) **expand** agricultural output

They hope to **expand** their business worldwide.

thorough

adj. done completely; significantly careful and accurate

synonym: complete, comprehensive, meticulous

(1) **thorough** investigation, (2) provide **thorough** analysis

A **thorough** brushing helps to keep your mouth fresh.

stretch

v. to make or be capable of making anything longer or broader without hurting or breaking

synonym: lengthen, prolong, extend

(1) **stretch** along the coast, (2) **stretch** a story

Some herds have been observed to **stretch** hundreds of kilometers.

density

n. the quality of compactness of a substance

synonym: tightness, viscosity

(1) population **density**, (2) higher pixel **density**

Do you know the **density** of the population in Hong Kong?

extreme

adj. very great in amount or degree

synonym : farthestmost, outermost, fierce

(1) **extreme** sports, (2) **extreme** weather events

Solar gravity creates **extreme** pressures and temperatures.

microgravity

n. a condition of feeble gravity, often experienced by objects or organisms in orbit around a planet or other celestial body, such as the International Space Station

synonym : zero gravity, weightlessness, freefall

(1) **microgravity** research, (2) **microgravity** environment

Astronauts experience the effects of **microgravity** when they are in space.

mount

v. to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone

synonym : climb, increase, get on

(1) **mount** a hill, (2) **mount** a counterattack

They **mounted** pictures on the paper in preparation for the birthday card.

vertical

adj. upright or perpendicular to a horizontal surface or line

synonym : perpendicular, upright, plumb

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

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

relation

n. the way two persons or groups of people feel and act toward one another

synonym : association, linkage, connection

(1) **relation** between cause and effect, (2) **relation** of inclusion

The industrial **relations** laws were passed with little to no alteration.

mess

n. a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy

synonym: disarray, confusion, predicament

(1) have a whole **mess**, (2) get into a **mess**

He made a frightful **mess** in his room.

analyze

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

synonym: explore, examine, investigate

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

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

encourage

v. to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do

synonym: facilitate, persuade, stimulate

(1) **encourage** a sense of affinity, (2) **encourage** antisocial behavior

They **encouraged** customers with a premium for loyal patronage.

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.

picnic

n. an outdoor meal or social gathering where food is served and eaten in nature, typically in a park, forest, or other outdoor settings

synonym: outing, barbecue, walkover

(1) **picnic** basket, (2) **picnic** table

The family enjoyed a lovely **picnic** in the park on a sunny day.

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.

recruit

v. to persuade someone to work for a company; to find new members for an organization, the armed forces, etc.

synonym : raise, enroll, enlist

(1) **recruit** a good worker, (2) **recruit** a new hire

The colonial government **recruited** militia support when civil war broke out.

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.

deposit

n. a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force

synonym : bank, installment, sedimentation

(1) **deposit** money, (2) **deposit** accumulation

I made a **deposit** at the bank to add money to my account.

trail

n. a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular purpose; (verb) to lag or linger behind

synonym : footpath, track, course

(1) a warm **trail**, (2) follow the **trail**

The storm left a **trail** of destruction behind it.

obvious

adj. easy to see, discover or understand

synonym : apparent, conspicuous, evident

(1) **obvious** reasons, (2) his conclusion was **obvious**

There are **obvious** differences between the two

wine-producing regions.

toxin

n. a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism

synonym : poison, venom, contaminant

(1) **toxin** exposure, (2) **toxin** production

Mold exposure can release dangerous **toxins** into the air.

promote

v. to encourage or persuade people to like, buy, use, do, or support something; to raise someone to a higher position or rank

synonym : boost, raise, advertise

(1) **promote** a better relationship, (2) **promote** bad behavior

The government should do more to **promote** sustainable agribusiness.

poison

n. a substance that can cause illness, injury, or death when ingested, inhaled, or absorbed through the skin; something harmful, malicious, or toxic; the act of damaging or ruining a relationship; (verb) to introduce a substance into something or someone harmful and potentially deadly

synonym : toxin, venom, pollutant

(1) **poison** ivy, (2) **poison** bilateral relations

The plant's leaves contain a deadly **poison** that can cause hallucinations and seizures.

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.

metastasize

v. (of a cancerous tumor or disease) to spread or grow to other parts of the body from its original location

synonym : spread, multiply, disseminate

(1) **metastasize** to the liver, (2) **metastasize** from breast cancer

Cancer cells can **metastasize** and spread to other body parts if left untreated.

tissue

n. an ensemble of similar cells of the animal or plant that together carry out a specific function

synonym: structure, texture, anatomy

(1) a facial **tissue**, (2) loss of muscle **tissue**

The researcher separated the nervous **tissue** for microscopic examinations.

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.

metastatic

adj. used to describe cancer cells that have spread from the primary site of origin to other parts of the body through the bloodstream or lymphatic system

synonym: spreading, invasive, secondary

(1) **metastatic** disease, (2) **metastatic** spreading

Metastatic cancer has spread from its original site to other body parts.

trap

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

synonym: catch, snare, pinfall

(1) set a **trap**, (2) **trap** an animal

The enemy fell right into the **trap**.

feat

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

synonym: achievement, accomplishment, exploit

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

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

Session 2: Spelling

1. set a t__p *n.* a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
2. sl____ly alkaline soils *adv.* in a small degree or extent; a little
3. ex____e weather events *adj.* very great in amount or degree
4. met_____ic spreading *adj.* used to describe cancer cells that have spread from the primary site of origin to other parts of the body through the bloodstream or lymphatic system
5. sop_____ted look *adj.* having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion
6. in____ve breast cancer *adj.* spreading very quickly, and often aggressively, and difficult to stop
7. mi____l effort *adj.* tiny in amount; the least possible
8. f__t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery
9. th____gh investigation *adj.* done completely; significantly careful and accurate
10. am____g advances *adj.* extremely surprising, especially in a way that you like or admire
11. gra_____ld development *n.* a child of someone's son or daughter

ANSWERS: 1. trap, 2. slightly, 3. extreme, 4. metastatic, 5. sophisticated, 6. invasive, 7. minimal, 8. feat, 9. thorough, 10. amazing, 11. grandchild

12. ex___d a lineup *v.* to increase or to make something greater in size, number, or importance
13. historical an____y *n.* a comparison between similar things that have similar aspects, often used to help explain a principle or concept
14. have a ne____ve effect *adj.* having the quality of something bad or harmful; expressing refusal
15. fi____ll protection *n.* (in computing) a technological barrier designed to stop people from seeing or using the information on a computer without permission but still allow them to receive information that is sent to them
16. an____a of insect *n.* an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects
17. uncomfortably hu__d *adj.* having a high amount of moisture or water vapor in the air; damp; muggy
18. follow the tr__l *n.* a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular purpose; (verb) to lag or linger behind
19. ex____e sports *adj.* very great in amount or degree
20. de____on authority *n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options
21. an____us fashion *adj.* similar or equivalent in some respects, typically as a result of functioning in a similar way

ANSWERS: 12. expand, 13. analogy, 14. negative, 15. firewall, 16. antenna, 17. humid, 18. trail, 19. extreme, 20. decision, 21. analogous

22. re_____le each other *v.* to look like or be similar to someone or something
23. pr_____e a better relationship *v.* to encourage or persuade people to like, buy, use, do, or support something; to raise someone to a higher position or rank
24. mo__t a counterattack *v.* to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone
25. or____n of information *n.* the first existence or beginning of something
26. ev_____on theory *n.* a gradual process of transformation of living things
27. draw an_____y *n.* a comparison between similar things that have similar aspects, often used to help explain a principle or concept
28. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
29. tu___l construction work *n.* an underground or underwater passage, typically for trains or cars
30. co_____ve coal resources *v.* to protect something, especially the natural environment or culture, from change, damage, or destruction
31. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
32. fo_____ss wall *n.* a large and strongly built structure, typically with high walls and a moat, used as a military defense or for protection against attackers

ANSWERS: 22. resemble, 23. promote, 24. mount, 25. origin, 26. evolution, 27. analogy, 28. evolve, 29. tunnel, 30. conserve, 31. lab, 32. fortress

33. the RSA al_____hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
34. mic_____ity environment *n.* a condition of feeble gravity, often experienced by objects or organisms in orbit around a planet or other celestial body, such as the International Space Station
35. 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
36. the first round of the com_____on *n.* a situation in which someone is attempting to beat or outperform another
37. an_____e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning
38. the im_____te past *adj.* happening or done without delay or occurring shortly after something else
39. tr_____it information *v.* to send or forward an electronic signal; to pass something from one person or thing to another
40. tr_____e from his eyes *v.* to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities
41. manually op_____e a machine *v.* to work in a particular way; to supervise something
42. in_____ct directly with customers *v.* to communicate or react with somebody
43. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software

ANSWERS: 33. algorithm, 34. microgravity, 35. tube, 36. competition, 37. analyze, 38. immediate, 39. transmit, 40. trickle, 41. operate, 42. interact, 43. engineer

44. pe_____nt life insurance *adj.* lasting for a long time without essential change
45. hemoglobin met_____sm *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
46. va_____on of temperature *n.* the act or state of changing; a difference or change in the way something is done, made or said
47. re_____on of inclusion *n.* the way two persons or groups of people feel and act toward one another
48. a_t bite *n.* a very small insect that lives under the ground or in a mound in highly organized groups
49. striking res_____ce *n.* similarity in appearance or exterior or superficial details
50. 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
51. still on_____g *adj.* continuing to exist or develop, or currently happening
52. loss of muscle ti____e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
53. gra_____ld-grandparent relationship *n.* a child of someone's son or daughter

ANSWERS: 44. permanent, 45. metabolism, 46. variation, 47. relation, 48. ant, 49. resemblance, 50. exchange, 51. ongoing, 52. tissue, 53. grandchild

54. st____h a story *v.* to make or be capable of making anything longer or broader without hurting or breaking
55. produce of _____ng *n.* descendant; any immature animal or plant
56. ruled by a ma_____ch *n.* a woman who is the head of a family or social group; a woman who is the founder or dominant member of a group
57. tr_____ff problem *n.* a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise
58. co_____t mainly of cells *v.* to be composed or made up of
59. during rep_____ive period *adj.* connected with the process of reproduction; relating to reproducing babies, young animals, or plants
60. de_____t money *n.* a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force
61. the per_____ve of the battle *n.* a confident attitude toward something; a particular style of thinking about something
62. crystalline si_____n *n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers

ANSWERS: 54. stretch, 55. offspring, 56. matriarch, 57. trade-off, 58. consist, 59. reproductive, 60. deposit, 61. perspective, 62. silicon

63. ex___d agricultural output *v.* to increase or to make something greater in size, number, or importance
64. periods of dr____t *n.* a long period of time during which there is very little or no rain, leading to a shortage of water and often causing damage to crops and other vegetation
65. plant a co___y *n.* a country or an area that is governed by a more powerful country that is often far away
66. sti_____on of the senses *n.* the act of arousing interest or activity in something; the action of providing a stimulus
67. en_____ge antisocial behavior *v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
68. 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
69. an_____e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
70. to__n exposure *n.* a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism
71. a ch_____al compound *adj.* relating to or connected with chemistry;

ANSWERS: 63. expand, 64. drought, 65. colony, 66. stimulation, 67. encourage, 68. planet, 69. analyze, 70. toxin, 71. chemical

72. po___n ivy *n.* a substance that can cause illness, injury, or death when ingested, inhaled, or absorbed through the skin; something harmful, malicious, or toxic; the act of damaging or ruining a relationship; (verb) to introduce a substance into something or someone harmful and potentially deadly
73. entirely an____us *adj.* similar or equivalent in some respects, typically as a result of functioning in a similar way
74. mo__t a hill *v.* to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone
75. political ar__a *n.* a large, flat area, often circular or oval-shaped, designed to showcase theatre, musical performances, or sporting events
76. human ev____on *n.* a gradual process of transformation of living things
77. gene va____on *n.* the act or state of changing; a difference or change in the way something is done, made or said
78. de___t basin *n.* arid land with little or no vegetation often covered with sand or rocks
79. rep____ive ability *adj.* connected with the process of reproduction; relating to reproducing babies, young animals, or plants

ANSWERS: 72. poison, 73. analogous, 74. mount, 75. arena, 76. evolution, 77. variation, 78. desert, 79. reproductive

80. in_____ve species *adj.* spreading very quickly, and often aggressively, and difficult to stop
81. met_____ic disease *adj.* used to describe cancer cells that have spread from the primary site of origin to other parts of the body through the bloodstream or lymphatic system
82. federal ci_____t courts *n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
83. fi_____ll application *n.* (in computing) a technological barrier designed to stop people from seeing or using the information on a computer without permission but still allow them to receive information that is sent to them
84. ca____r research *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
85. sy____l color *n.* something visible that is used to represent something else
86. mic_____ity research *n.* a condition of feeble gravity, often experienced by objects or organisms in orbit around a planet or other celestial body, such as the International Space Station
87. ou_____ng attitude *adj.* friendly and energetic in talking to others; tending to go out or away

ANSWERS: 80. invasive, 81. metastatic, 82. circuit, 83. firewall, 84. cancer, 85. symbol, 86. microgravity, 87. outgoing

88. tr____it the disease *v.* to send or forward an electronic signal; to pass something from one person or thing to another
89. a se____e case of pneumonia *adj.* extremely serious or bad in feeling, manner, or strict and harsh; extremely strong or vigorous
90. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
91. a con_____ly varying mind *adv.* all the time
92. the most am_____g feeling *adj.* extremely surprising, especially in a way that you like or admire
93. al_____hm for image processing *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
94. continuously sh_____ng landscape *adj.* constantly changing or moving
95. have a whole m__s *n.* a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy
96. st_____h along the coast *v.* to make or be capable of making anything longer or broader without hurting or breaking
97. ba_____th allocation *n.* the amount of data that can be transmitted or processed at one time often used to describe the capacity of electronic communication or computing systems
98. racial or____n *n.* the first existence or beginning of something

ANSWERS: 88. transmit, 89. severe, 90. brain, 91. constantly, 92. amazing, 93. algorithm, 94. shifting, 95. mess, 96. stretch, 97. bandwidth, 98. origin

99. pi___c table *n.* an outdoor meal or social gathering where food is served and eaten in nature, typically in a park, forest, or other outdoor settings
100. met_____ze from breast cancer *v.* (of a cancerous tumor or disease) to spread or grow to other parts of the body from its original location
101. po___n bilateral relations *n.* a substance that can cause illness, injury, or death when ingested, inhaled, or absorbed through the skin; something harmful, malicious, or toxic; the act of damaging or ruining a relationship; (verb) to introduce a substance into something or someone harmful and potentially deadly
102. a ge_____c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
103. economic st_____us *n.* something that causes growth or arouses action
104. basin-shaped va___y *n.* a long depression on the surface of the land, which typically contains a river
105. immune fu_____on *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

ANSWERS: 99. picnic, 100. metastasize, 101. poison, 102. genetic, 103. stimulus, 104. valley, 105. function

106. a per_____ve view *n.* a confident attitude toward something; a particular style of thinking about something
107. the in_____on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
108. a person of di_____e talents *adj.* including numerous categories of individuals or entities; various
109. en_____ge a sense of affinity *v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
110. provide th_____gh analysis *adj.* done completely; significantly careful and accurate
111. toxic ch_____als *adj.* relating to or connected with chemistry;
112. di_____e backgrounds *adj.* including numerous categories of individuals or entities; various
113. dr_____t conditions *n.* a long period of time during which there is very little or no rain, leading to a shortage of water and often causing damage to crops and other vegetation
114. tu____l disease *n.* an underground or underwater passage, typically for trains or cars
115. a ne_____ve number *adj.* having the quality of something bad or harmful; expressing refusal
116. economic th____t *n.* a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation

ANSWERS: 106. perspective, 107. invention, 108. diverse, 109. encourage, 110. thorough, 111. chemical, 112. diverse, 113. drought, 114. tunnel, 115. negative, 116. threat

117. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
118. ind_____al freedom *n.* a single person or thing, as distinct from a group
119. common in_____on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
120. a cl_____r of stars *n.* a group of similar things or people close together, often forming a distinct mass or unit
121. op_____e 24 hours a day *v.* to work in a particular way; to supervise something
122. a facial ti_____e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
123. on_____g support *adj.* continuing to exist or develop, or currently happening
124. intraspecific com_____on *n.* a situation in which someone is attempting to beat or outperform another
125. co_____t only in knowing facts *v.* to be composed or made up of
126. excite the ne_____ns *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
127. met_____ze to the liver *v.* (of a cancerous tumor or disease) to spread or grow to other parts of the body from its original location

ANSWERS: 117. environment, 118. individual, 119. invention, 120. cluster, 121. operate, 122. tissue, 123. ongoing, 124. competition, 125. consist, 126. neuron, 127. metastasize

128. have ge____c testing *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
129. st____e environment *adj.* free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing
130. sy____l for happiness *n.* something visible that is used to represent something else
131. fu____on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
132. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
133. get into a m__s *n.* a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy
134. de____t accumulation *n.* a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force
135. re____on between cause and effect *n.* the way two persons or groups of people feel and act toward one another
136. ob____s reasons *adj.* easy to see, discover or understand

ANSWERS: 128. genetic, 129. sterile, 130. symbol, 131. function, 132. lab, 133. mess, 134. deposit, 135. relation, 136. obvious

137. sa_____ce anything to get ahead *n.* the act of killing an animal or person or surrendering a possession as an offering to a deity; (verb) to give up something important or valuable to help another person or get or do something that seems more important
138. ve_____al takeoff *adj.* upright or perpendicular to a horizontal surface or line
139. an ele_____al storm *adj.* relating to electricity
140. met_____sm enzyme *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
141. in_____ct with one another *v.* to communicate or react with somebody
142. a s__d coat *n.* a small, hard, often round, a reproductive structure that contains a plant's genetic material and is capable of growing into a new plant
143. s__d money *n.* a small, hard, often round, a reproductive structure that contains a plant's genetic material and is capable of growing into a new plant
144. environmental th____t *n.* a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation
145. follow his ins_____ons *n.* detailed direction, order, etc., on how to do or use something

ANSWERS: 137. sacrifice, 138. vertical, 139. electrical, 140. metabolism, 141. interact, 142. seed, 143. seed, 144. threat, 145. instruction

146. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
147. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
148. indoor ar__a *n.* a large, flat area, often circular or oval-shaped, designed to showcase theatre, musical performances, or sporting events
149. live in a cl_____r *n.* a group of similar things or people close together, often forming a distinct mass or unit
150. ecology and evo_____ary biology *adj.* relating to or denoting how living things develop or change from earlier forms
151. a scanty ha_____t *n.* yields of plants in a single growing season; the period of the year when gathering occurs on a farm
152. re_____le her mother *v.* to look like or be similar to someone or something
153. hu__d climate *adj.* having a high amount of moisture or water vapor in the air; damp; muggy
154. re_____t a new hire *v.* to persuade someone to work for a company; to find new members for an organization, the armed forces, etc.
155. ve_____al axis *adj.* upright or perpendicular to a horizontal surface or line
156. a con_____ly innovative enterprise *adv.* all the time
157. ev___e *v.* to develop gradually, or to cause the development of something or someone gradually

ANSWERS: 146. experiment, 147. engineer, 148. arena, 149. cluster, 150. evolutionary, 151. harvest, 152. resemble, 153. humid, 154. recruit, 155. vertical, 156. constantly, 157. evolve

158. tem_____ly suspend the production
adv. for a limited time only or not permanently
159. extend the TV an_____a
n. an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects
160. t__p an animal
n. a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
161. live an ab_____nt life
adj. present in great quantity
162. tr_____e down my cheek
v. to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities
163. 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
164. the branch of neu_____nce
n. the scientific study of the function, structure, and disorder of the brain and the nervous system
165. sh_____ng balance
adj. constantly changing or moving
166. a theoretical concept in neu_____nce
n. the scientific study of the function, structure, and disorder of the brain and the nervous system
167. con_____le way
adj. imaginable or possible to understand or believe in the mind
168. female of_____ng
n. descendant; any immature animal or plant

ANSWERS: 158. temporarily, 159. antenna, 160. trap, 161. abundant, 162. trickle, 163. tube, 164. neuroscience, 165. shifting, 166. neuroscience, 167. conceivable, 168. offspring

169. reap a ha____t *n.* yields of plants in a single growing season; the period of the year when gathering occurs on a farm
170. va____y bottom *n.* a long depression on the surface of the land, which typically contains a river
171. take im____te effect *adj.* happening or done without delay or occurring shortly after something else
172. degree in ele____al engineering *adj.* relating to electricity
173. ne____n cell body *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
174. the int____on between man and his environment *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
175. de____e on a course of action *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
176. an ab____nt supply of water *adj.* present in great quantity
177. sti____on of the economy *n.* the act of arousing interest or activity in something; the action of providing a stimulus
178. oasis in the de____t *n.* arid land with little or no vegetation often covered with sand or rocks
179. to__n production *n.* a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism

ANSWERS: 169. harvest, 170. valley, 171. immediate, 172. electrical, 173. neuron, 174. interaction, 175. decide, 176. abundant, 177. stimulation, 178. desert, 179. toxin

180. environmental tr_____ff *n.* a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise
181. faint res_____ce *n.* similarity in appearance or exterior or superficial details
182. a hut made tem_____ly *adv.* for a limited time only or not permanently
183. 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
184. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
185. ou_____ng mail *adj.* friendly and energetic in talking to others; tending to go out or away
186. a response to a st_____us *n.* something that causes growth or arouses action
187. an und_____ng cause of an accident *adj.* significant as a cause or basis of something but not immediately apparent or stated clearly
188. de_____e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
189. int_____on among human beings *n.* the act of connecting with someone, mainly when working, playing, or spending time with them

ANSWERS: 180. trade-off, 181. resemblance, 182. temporarily, 183. exchange, 184. complicated, 185. outgoing, 186. stimulus, 187. underlying, 188. decide, 189. interaction

190. a sop_____ted lifestyle *adj.* having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion
191. population de_____y *n.* the quality of compactness of a substance
192. opp_____on campaign *n.* the act of disagreeing or resisting; the state of strong disagreement
193. re_____t a good worker *v.* to persuade someone to work for a company; to find new members for an organization, the armed forces, etc.
194. intellectual f__t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
195. literature of pe_____nt value *adj.* lasting for a long time without essential change
196. individual ins_____on *n.* detailed direction, order, etc., on how to do or use something
197. means to co_____ve energy *v.* to protect something, especially the natural environment or culture, from change, damage, or destruction
198. pi___c basket *n.* an outdoor meal or social gathering where food is served and eaten in nature, typically in a park, forest, or other outdoor settings
199. insect ab_____n *n.* the part of the body between the chest and pelvis that contains the stomach, intestines, liver, pancreas, and other organs; the posterior part of an insect's body, typically divided into segments

ANSWERS: 190. sophisticated, 191. density, 192. opposition, 193. recruit, 194. feat, 195. permanent, 196. instruction, 197. conserve, 198. picnic, 199. abdomen

200. ab_____n pain *n.* the part of the body between the chest and pelvis that contains the stomach, intestines, liver, pancreas, and other organs; the posterior part of an insect's body, typically divided into segments
201. a private ind_____al *n.* a single person or thing, as distinct from a group
202. his conclusion was ob_____s *adj.* easy to see, discover or understand
203. 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
204. the evo_____ary process *adj.* relating to or denoting how living things develop or change from earlier forms
205. a selfish de_____on *n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options
206. meet with opp_____on *n.* the act of disagreeing or resisting; the state of strong disagreement
207. sc_____e resources *adj.* not abundant or plentiful, and therefore not easy to find or obtain
208. mi_____l amount *adj.* tiny in amount; the least possible
209. con_____le emergency *adj.* imaginable or possible to understand or believe in the mind
210. increase ba_____th *n.* the amount of data that can be transmitted or processed at one time often used to describe the capacity of electronic communication or computing systems

ANSWERS: 200. abdomen, 201. individual, 202. obvious, 203. planet, 204. evolutionary, 205. decision, 206. opposition, 207. scarce, 208. minimal, 209. conceivable, 210. bandwidth

211. ca___r diagnosis *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
212. bird's n__t *n.* a structure in which animals lay their eggs or give birth to their young
213. a warm tr__l *n.* a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular purpose; (verb) to lag or linger behind
214. a n__t of thieves *n.* a structure in which animals lay their eggs or give birth to their young
215. a st_____e man *adj.* free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing
216. increase sl_____ly *adv.* in a small degree or extent; a little
217. higher pixel de_____y *n.* the quality of compactness of a substance
218. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
219. a co___y of bacteria *n.* a country or an area that is governed by a more powerful country that is often far away
220. capital-sc___e country *adj.* not abundant or plentiful, and therefore not easy to find or obtain
221. ma_____ch figure *n.* a woman who is the head of a family or social group; a woman who is the founder or dominant member of a group

ANSWERS: 211. cancer, 212. nest, 213. trail, 214. nest, 215. sterile, 216. slightly, 217. density, 218. experiment, 219. colony, 220. scarce, 221. matriarch

222. a white a_t *n.* a very small insect that lives under the ground or in a mound in highly organized groups
223. se___e heat *adj.* extremely serious or bad in feeling, manner, or strict and harsh; extremely strong or vigorous
224. small sa_____ce for a great cause *n.* the act of killing an animal or person or surrendering a possession as an offering to a deity; (verb) to give up something important or valuable to help another person or get or do something that seems more important
225. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
226. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
227. military fo_____ss *n.* a large and strongly built structure, typically with high walls and a moat, used as a military defense or for protection against attackers
228. si_____n wafer *n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers
229. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live

ANSWERS: 222. ant, 223. severe, 224. sacrifice, 225. complicated, 226. brain, 227. fortress, 228. silicon, 229. environment

230. an und_____ng motive

adj. significant as a cause or basis of something but not immediately apparent or stated clearly

231. ci_____t breaker

n. (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area

232. pr_____e bad behavior

v. to encourage or persuade people to like, buy, use, do, or support something; to raise someone to a higher position or rank

ANSWERS: 230. underlying, 231. circuit, 232. promote

Session 3: Fill in the Blanks

1. Children must be taught to _____ our natural environment.
v. to protect something, especially the natural environment or culture, from change, damage, or destruction

2. The senator received _____ criticism from his opponent.
adj. extremely serious or bad in feeling, manner, or strict and harsh; extremely strong or vigorous

3. How many _____ does the average lion have?
n. descendant; any immature animal or plant

4. He did _____ pen-and-ink drawings in just a few days.
adj. involving a lot of different things or parts in a way that is difficult to understand or analyze

5. This documentary deals with the _____ biology of the buffalo.
adj. connected with the process of reproduction; relating to reproducing babies, young animals, or plants

6. We can find many large ____ mounds in this area.
n. a very small insect that lives under the ground or in a mound in highly organized groups

7. The colonial government _____ militia support when civil war broke out.
v. to persuade someone to work for a company; to find new members for an organization, the armed forces, etc.

ANSWERS: 1. conserve, 2. severe, 3. offspring, 4. complicated, 5. reproductive, 6. ant, 7. recruited

8. Both forts were subject to _____ attacks.

adj. happening or done without delay or occurring shortly after something else

9. Necessity is the mother of _____.

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

10. The air was so _____ that my clothes felt damp.

adj. having a high amount of moisture or water vapor in the air; damp; muggy

11. This book provides children with ideas and a _____ for outside recreation.

n. something that causes growth or arouses action

12. 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

13. The country has _____ oil and natural gas resources.

adj. present in great quantity

14. She is searching for a _____ residence.

adj. lasting for a long time without essential change

15. We can evaluate the performance of an _____ in terms of computation time.

n. a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

16. He made a frightful _____ in his room.

n. a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy

ANSWERS: 8. immediate, 9. invention, 10. humid, 11. stimulus, 12. environment, 13. abundant, 14. permanent, 15. algorithm, 16. mess

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

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

18. Actuators convert _____ pulses into motion.

adj. relating to electricity

19. The company is planning to build a 20,000-seat _____ with a retractable roof.

n. a large, flat area, often circular or oval-shaped, designed to showcase theatre, musical performances, or sporting events

20. Surgeons must use _____ instruments to prevent infection during an operation.

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

21. The _____ between Anna and her mother was astonishing.

n. similarity in appearance or exterior or superficial details

22. Solar gravity creates _____ pressures and temperatures.

adj. very great in amount or degree

23. The researcher separated the nervous _____ for microscopic examinations.

n. an ensemble of similar cells of the animal or plant that together carry out a specific function

24. The brothers _____ each other in the hobby.

v. to look like or be similar to someone or something

ANSWERS: 17. feat, 18. electrical, 19. arena, 20. sterile, 21. resemblance, 22. extreme, 23. tissue, 24. resemble

25. Trends in the fashion industry are so _____ that it is challenging to keep up with them.
adj. constantly changing or moving
26. He had a special _____ for public relations
n. an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects
27. They _____ pictures on the paper in preparation for the birthday card.
v. to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone
28. A _____ of grapes hung from the vine.
n. a group of similar things or people close together, often forming a distinct mass or unit
29. The human heart is _____ to a pump in a plumbing system.
adj. similar or equivalent in some respects, typically as a result of functioning in a similar way
30. _____ is the second most abundant element on earth after oxygen.
n. a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers
31. Marketing strategies are growing more _____.
adj. having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion

ANSWERS: 25. shifting, 26. antenna, 27. mounted, 28. cluster, 29. analogous, 30. Silicon, 31. sophisticated

32. The _____ party strongly disagreed with the government's proposed legislation.
- n.* the act of disagreeing or resisting; the state of strong disagreement
33. I made a _____ at the bank to add money to my account.
- n.* a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force
34. The _____ had received a mild snowfall the previous week.
- n.* a long depression on the surface of the land, which typically contains a river
35. Eyeless fish _____ in dark caves.
- v.* to develop gradually, or to cause the development of something or someone gradually
36. The industrial _____ laws were passed with little to no alteration.
- n.* the way two persons or groups of people feel and act toward one another
37. This machine is too difficult to _____ for me.
- v.* to work in a particular way; to supervise something
38. The government should do more to _____ sustainable agribusiness.
- v.* to encourage or persuade people to like, buy, use, do, or support something; to raise someone to a higher position or rank
39. 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

ANSWERS: 32. opposition, 33. deposit, 34. valley, 35. evolved, 36. relations, 37. operate, 38. promote, 39. individual,

40. The mobile application industry is _____ changing.

adv. all the time

41. Better sleep leads to increased _____.

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

42. The female birds build a _____ and lay their eggs in May.

n. a structure in which animals lay their eggs or give birth to their young

43. Breast _____ is the most common type of cancer in women.

n. abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

44. He planted the _____ in the soil and waited for it to sprout.

n. a small, hard, often round, a reproductive structure that contains a plant's genetic material and is capable of growing into a new plant

45. She was struggling to make a _____ between two job offers.

n. the act or process of making up someone's mind about something; a choice or judgment reached after considering options

46. An intelligent battery has a voltage monitoring _____.

n. (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area

47. The weightlifter used his strong _____ muscles to lift the heavy barbell.

n. the part of the body between the chest and pelvis that contains the stomach, intestines, liver, pancreas, and other organs; the posterior part of an insect's body, typically divided into segments

ANSWERS: 40. constantly, 41. metabolism, 42. nest, 43. cancer, 44. seed, 45. decision, 46. circuit, 47. abdomen

48. This examination _____ of five problems to solve.

v. to be composed or made up of

49. His _____ showed highly positive results.

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

50. Public cloud computing should provide a secure _____ against hackers.

n. (in computing) a technological barrier designed to stop people from seeing or using the information on a computer without permission but still allow them to receive information that is sent to them

51. The grandparents take care of their _____ while the parents are at work.

n. a child of someone's son or daughter

52. Some kinds of machine learning models show an _____ to how people learn.

n. a comparison between similar things that have similar aspects, often used to help explain a principle or concept

53. 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

54. The new prime minister has vowed to take measures against the _____ economic crisis.

adj. continuing to exist or develop, or currently happening

55. The dragon is considered a _____ of bravery.

n. something visible that is used to represent something else

ANSWERS: 48. consists, 49. experiments, 50. firewall, 51. grandchild, 52. analogy, 53. harvest, 54. ongoing, 55. symbol

56. The _____ of certain chemicals activates the brain's reward system.
- n.* the act of arousing interest or activity in something; the action of providing a stimulus
57. The _____ of severe weather prompted the city to issue an evacuation warning.
- n.* a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation
58. 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
59. I don't have the _____ to take on any new projects, as I'm already working on multiple assignments.
- n.* the amount of data that can be transmitted or processed at one time often used to describe the capacity of electronic communication or computing systems
60. Some herds have been observed to _____ hundreds of kilometers.
- v.* to make or be capable of making anything longer or broader without hurting or breaking
61. New York is a city with a _____ ethnic population.
- adj.* including numerous categories of individuals or entities; various
62. The plant's leaves contain a deadly _____ that can cause hallucinations and seizures.
- n.* a substance that can cause illness, injury, or death when ingested, inhaled, or absorbed through the skin; something harmful, malicious, or toxic; the act of damaging or ruining a relationship; (verb) to introduce a substance into something or someone harmful and potentially deadly

ANSWERS: 56. stimulation, 57. threat, 58. exchange, 59. bandwidth, 60. stretch, 61. diverse, 62. poison

63. Astronauts experience the effects of _____ when they are in space.
n. a condition of feeble gravity, often experienced by objects or organisms in orbit around a planet or other celestial body, such as the International Space Station
64. The _____ declared its independence and became a republic.
n. a country or an area that is governed by a more powerful country that is often far away
65. The _____ disease can spread quickly and potentially cause a global pandemic.
adj. spreading very quickly, and often aggressively, and difficult to stop
66. 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
67. The movie has received almost universally _____ criticism.
adj. having the quality of something bad or harmful; expressing refusal
68. 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
69. He should _____ more with his colleagues.
v. to communicate or react with somebody
70. They study the _____ of the universe.
n. a gradual process of transformation of living things

ANSWERS: 63. microgravity, 64. colony, 65. invasive, 66. planet, 67. negative, 68. interaction, 69. interact, 70. evolution

71. Our body transfers information along each _____ using an electrical impulse.
n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body
72. _____ 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
73. The ancient _____ was built on a hill to give the defenders a strategic advantage.
n. a large and strongly built structure, typically with high walls and a moat, used as a military defense or for protection against attackers
74. They _____ customers with a premium for loyal patronage.
v. to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
75. The firm has grown into a large _____ manufacturing.
adj. relating to or connected with chemistry;
76. The golfer recorded an _____ distance.
adj. extremely surprising, especially in a way that you like or admire
77. The enemy fell right into the _____.
n. a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
78. The _____ of the family was known for her wisdom and guidance.
n. a woman who is the head of a family or social group; a woman who is the founder or dominant member of a group

ANSWERS: 71. neuron, 72. Evolutionary, 73. fortress, 74. encouraged, 75. chemical, 76. amazing, 77. trap, 78. matriarch

79. She was an _____ person and loved meeting new people and trying new things.
adj. friendly and energetic in talking to others; tending to go out or away
80. Some athletes take anabolic steroids to increase muscle size _____.
adv. for a limited time only or not permanently
81. Cancer cells can _____ and spread to other body parts if left untreated.
v. (of a cancerous tumor or disease) to spread or grow to other parts of the body from its original location
82. The brain is an incredibly complex organ that controls the body's _____.
n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
83. The workers had to dig through solid rock to create the vehicular _____ allowing the cars to pass through the mountain.
n. an underground or underwater passage, typically for trains or cars
84. She couldn't _____ whether to order the pizza or the pasta for dinner.
v. to make up someone's mind about something; to come to a conclusion or judgment after considering options
85. This region is predominantly _____.
n. arid land with little or no vegetation often covered with sand or rocks
86. There are _____ differences between the two wine-producing regions.
adj. easy to see, discover or understand

ANSWERS: 79. outgoing, 80. temporarily, 81. metastasize, 82. function, 83. tunnel, 84. decide, 85. desert, 86. obvious

87. A _____ brushing helps to keep your mouth fresh.

adj. done completely; significantly careful and accurate

88. Fresh water is becoming increasingly _____ in many parts of the world.

adj. not abundant or plentiful, and therefore not easy to find or obtain

89. They hope to _____ their business worldwide.

v. to increase or to make something greater in size, number, or importance

90. They needed further _____ to perform their duties efficiently.

n. detailed direction, order, etc., on how to do or use something

91. Mold exposure can release dangerous _____ into the air.

n. a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism

92. Global _____ is rising in virtually every industry.

n. a situation in which someone is attempting to beat or outperform another

93. There are various hypotheses concerning the _____ of life.

n. the first existence or beginning of something

94. 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

95. There was a _____ between speed and accuracy in the task.

n. a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise

ANSWERS: 87. thorough, 88. scarce, 89. expand, 90. instruction, 91. toxins, 92. competition, 93. origin, 94. brain, 95. trade-off

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

adj. upright or perpendicular to a horizontal surface or line

97. The storm left a _____ of destruction behind it.

n. a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular purpose; (verb) to lag or linger behind

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

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

99. The region has been experiencing a severe _____ leading to water shortages and crop failures.

n. a long period of time during which there is very little or no rain, leading to a shortage of water and often causing damage to crops and other vegetation

100. The _____ will repair my telephone tomorrow morning.

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

101. The process was carried out at _____ cost.

adj. tiny in amount; the least possible

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

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

103. Water was beginning to _____ into the basement after the heavy rain.

v. to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities

ANSWERS: 96. vertical, 97. trail, 98. analyze, 99. drought, 100. engineer, 101. minimal, 102. perspective, 103. trickle

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

n. the quality of compactness of a substance

105. He moved his body _____ to the left.

adv. in a small degree or extent; a little

106. The Prime Minister will pay a courtesy visit to the Nobel laureate's ____.

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

107. Parents often _____ their characteristics to their children.

v. to send or forward an electronic signal; to pass something from one person or thing to another

108. 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

109. _____ cancer has spread from its original site to other body parts.

adj. used to describe cancer cells that have spread from the primary site of origin to other parts of the body through the bloodstream or lymphatic system

110. The _____ principle of every business was identical.

adj. significant as a cause or basis of something but not immediately apparent or stated clearly

111. You cannot accomplish great things without a _____ of your time or money.

n. the act of killing an animal or person or surrendering a possession as an offering to a deity; (verb) to give up something important or valuable to help another person or get or do something that seems more important

ANSWERS: 104. density, 105. slightly, 106. lab, 107. transmit, 108. tube, 109. Metastatic, 110. underlying, 111. sacrifice

112. Understanding protein folding is a vital step in deciphering the _____ code.

adj. of or relating to genes (= parts of the DNA in cells) or the science of genes

113. Our university is famous for its professors, who are well-versed in behavioral _____.

n. the scientific study of the function, structure, and disorder of the brain and the nervous system

114. The family enjoyed a lovely _____ in the park on a sunny day.

n. an outdoor meal or social gathering where food is served and eaten in nature, typically in a park, forest, or other outdoor settings

115. It is challenging to defend every _____ target.

adj. imaginable or possible to understand or believe in the mind

116. There is a lot of _____ in the colors of flowers in the garden.

n. the act or state of changing; a difference or change in the way something is done, made or said

ANSWERS: 112. genetic, 113. neuroscience, 114. picnic, 115. conceivable, 116. variation