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Vocabulary Builder Reference from...

Paul McEuen and Marc Miskin: Tiny robots with giant potential | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

rot v. to decay, or cause something to decay, naturally and gradually
synonym : perish, decay, corrode
(1) begin to **rot**, (2) **rot** with age
Please refrigerate the meat, or it will **rot**.

microorganism n. a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope
synonym : germ, microbe, bacterium
(1) pathogenic **microorganism**, (2) **microorganisms** in his gut
This **microorganism** is a producer of respiratory disease.

saltwater *adj.* of or connected with seawater or water containing salt; living in or found in the sea
synonym : marine, naval, maritime
(1) a **saltwater** fish, (2) **saltwater** crocodile
The ecosystem upstream of the river significantly impacts the **saltwater** ecosystem downstream.

freshwater *adj.* living in, found in, or connecting with water that does not contain salt

(1) **freshwater** area, (2) **freshwater** aquatic bird
This microbe is a parasite of **freshwater** fish.

incredible

adj. unbelievable; enormous

synonym: unbelievable, fantastical, inconceivable

(1) **incredible** amount, (2) at **incredible** speed
Her response revealed **incredible** idiocy.

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.

hunt

v. to go after and try to catch wild animals to kill them for food, sport, or profit

synonym: chase, pursuit, quest

(1) **hunt** a job, (2) **hunt** after knowledge

Hounds **hunt** their prey by using their keen scent.

universe

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

synonym: cosmos, macrocosm

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

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

pond

n. a small, shallow lake

synonym: lake, pool, basin

(1) a garden **pond**, (2) **pond** water

The freshwater **pond** was home to many different types of fish and was a popular spot for fishing.

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.

functional

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

synonym : applicable, practical, usable

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

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

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.

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.

envy

v. to experience a feeling of jealousy or resentment towards someone because of their possessions, qualities, or achievements; to desire to have something that someone else has; (noun) a feeling of resentment or jealousy towards someone else's perceived advantage or success

synonym : covet, resent, grudge

(1) **envy** his success, (2) feeling **envy** toward him

I can't help but **envy** my friend's ability to stay calm in stressful situations.

clue

n. an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery

synonym : hint, indication, inkling

(1) a **clue** about the crime, (2) a **clue** to the diagnosis

The police couldn't find a **clue** to her whereabouts.

semiconductor

n. a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices

synonym : chip, wafer

(1) **semiconductor** industry, (2) **semiconductor** device

The company develops and sells **semiconductor** memory for use in computers and servers.

industrious

adj. hardworking, diligent, and persistent in effort

synonym : diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student

He was known to be very **industrious** and would often work late into the night.

device

n. a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

synonym : gadget, instrument, tool

(1) electronic **device**, (2) tracking **device**

I always carry a backup **device** in case my phone runs out of battery.

transistor

n. a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics

synonym : semiconductor, microchip, circuit

(1) **transistor** radio, (2) **transistor** circuit

The invention of the **transistor** revolutionized the field of electronics.

occupy

v. to consume all of someone's space, attention, or time

synonym : inhabit, settle, populate

(1) **occupy** his time, (2) **occupy** a position

The young prince will soon **occupy** the throne.

paramecium

n. a single-celled freshwater organism characterized by a slipper-like shape and the presence of cilia, used for movement and food gathering

synonym: slipper animalcule, ciliate

(1) **paramecium** species, (2) **paramecium** reproduction

The **paramecium** colony flourished in the petri dish, providing a perfect sample for our experiment.

electron

n. a tiny particle with the negative electrical charge

synonym: negatron

(1) flow of **electrons**, (2) beam of **electrons**

The outermost **electron** shell determines the chemical properties of an atom.

sensor

n. a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner

synonym: detector

(1) motion **sensor** lighting, (2) an image **sensor**

This automatic door could no longer be opened due to a **sensor** failure.

communicate

v. to share or exchange information with others by speaking, writing, moving your body, or using other signals

synonym: convey, share, transmit

(1) **communicate** his anxieties to the psychiatrist,

(2) **communicate** well with my advisor

Dolphins use sound to **communicate** with each other.

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**.

exotic

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

synonym: foreign, alien, unfamiliar

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

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

smartphone

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

(1) **smartphone** app developer, (2) **smartphone** addict

Internet traffic volumes have increased significantly with the advent of **smartphones**.

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.

incredibly

adv. in a way that is very difficult to believe; exceedingly or extremely

synonym: enormously, exceptionally, extraordinarily

(1) **incredibly** cheerful character, (2) get **incredibly** insecure

Several cities are experiencing **incredibly** high unemployment rates.

intelligent

adj. having the capacity for thought and reason, especially to a high degree

synonym: brilliant, clever, competent

(1) an **intelligent** person, (2) **intelligent** assisting system
Intelligent robots that can cooperate with humans have limited motor output for safety.

cellular

adj. of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

synonym : organic, biological, nuclear

(1) **cellular** and molecular biology, (2) a **cellular** phone handset

This factory employs a **cellular** manufacturing system.

optical

adj. of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

synonym : visual, ocular

(1) new **optical** glasses, (2) **optical** fiber

The **optical** illusion made it appear like the building was floating in midair.

wireless

adj. of or relating a connection or communication that does not require a physical wire or cable, often through the use of radio waves or electromagnetic signals

synonym : cordless, radio

(1) **wireless** access, (2) **wireless** charging

The office's **wireless** network allows employees to work from anywhere in the building.

integrate

v. to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups

synonym : mix, merge, combine

(1) **integrate** into the existing system, (2) **integrate** both businesses

He found that it is difficult to **integrate** socially.

advertise

v. to draw attention to something such as a product, service, or event in public to encourage people to buy, use, or attend it

synonym : publicize, announce, promote

(1) **advertise** the campaign, (2) **advertise** on social media

We want to **advertise** our company through your media.

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**.

blink

v. to shut and open the eyes quickly; to gleam or glow in a regular or intermittent way

synonym: twinkle, flash, flicker

(1) **blink** his eyes, (2) **blink** in astonishment

He **blinked** in the dazzling sunlight.

firefly

n. a flying nocturnal insect common in warm regions with a tail that shines in the dark

(1) the glow of a **firefly**, (2) sparkle like **firefly**

In that country, there is a culture of eating live **firefly** squid.

massive

adj. enormous amount; very heavy and solid

synonym: enormous, giant, immense

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

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

parallel

adj. being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations

synonym: aligned, side-by-side, similar

(1) a **parallel** case, (2) **parallel** processing

He walked a road **parallel** to the railroad.

wafer

n. a thin, flat, crisp biscuit or cake, often used as a communion element in religious services; a thin slice or piece of semiconductor material used in the production of computer chips and other electronic devices

synonym : thin cake, biscuit, disk

(1) strawberry **wafer**, (2) **wafer** cleaning system

The solar panel uses high-quality silicon **wafers** to convert sunlight into electricity efficiently.

app

n. (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC

synonym : application, software

(1) killer **app**, (2) cannot log in to the **app**

The discovery of a critical bug caused the company to delay the **app's** release.

voltage

n. the difference in the force of an electric current between two points

(1) the **voltage** spiked, (2) low **voltage**

Connecting batteries in series increase the **voltage** of the circuit.

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.

penny

n. a small denomination of currency or coin, typically the smallest unit of a currency system; in the US, a coin worth one cent

synonym : cent, coin, copper

(1) **penny** stock, (2) save a **penny**

I found a lucky **penny** on the ground while walking to work this morning.

memorial

n. a structure or monument to commemorate a person or event

synonym : monument, remembrance, tribute

(1) **memorial** address, (2) **memorial** park

The war **memorial** stands as a reminder of the sacrifices made by our ancestors.

zoom

v. to move along very quickly; (noun) the act of rising upward into the air

synonym: move quickly, dive, buzz

(1) **zoom** in on a photo, (2) **zoom** lens

He **zoomed** back in time to the soccer game.

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.

fashion

n. a style that is popular at a particular time or place; the state of being popular

synonym: style, manner, fad

(1) go out of **fashion**, (2) new **fashion** trends

That style is no longer in **fashion**.

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?

stick

v. to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

synonym: pierce, adhere, stay

(1) **stick** a key in a lock, (2) fire **stick**

You **stick** a bill in the change machine, and the coins pop out.

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.

identify

v. to recognize someone or something and say or prove who or what they are

synonym: determine, specify, recognize

(1) **identify** handwriting, (2) **identify** gene sequences

I will introduce you to how to **identify** the leading causes of the malfunction.

fingerprint

n. a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person

synonym: print, mark, impression

(1) **fingerprint** at a crime scene, (2) **fingerprint** identification

The police used a **fingerprint** scanner to identify the suspect.

medical

adj. relating to the treatment of illness or injuries; relating to the practice of medicine

synonym: health, disease, treatment

(1) a **medical** opinion, (2) temporary **medical** treatment

The **medical** team worked quickly to save the patient's life.

instrument

n. an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

synonym: apparatus, tool, device

(1) musical **instruments**, (2) surgical **instruments**

This electronic **instrument** is required to undergo periodic inspections to ensure precision.

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.

preexist

v. to exist or occur before something else, especially referring to a time period or event; to predate or come before

synonym: antedate, precede

(1) **preexist** the modern city, (2) **preexist** the current political tensions

The idea for the novel **preexisted** as fragments of a dream in the author's mind.

actuate

v. to cause a machine or equipment to start to work

synonym: motivate, spark, drive

(1) **actuate** the circuits, (2) **actuate** a parking brake

A desire for success **actuated** her.

satisfy

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

synonym: please, amuse, meet

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

Did this response **satisfy** your request?

requirement

n. something that is needed or wanted

synonym: prerequisite, provision, condition

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

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

curl

v. to form or make something form into a curved or spiral shape; (noun) a round shape formed by a series of concentric circles

synonym: coil, curve, spiral

(1) **curl** around street corners, (2) a **curl** of smoke

The cat **curled** into a ball and went to sleep.

unbelievable

adj. beyond belief or understanding and extremely surprising
synonym : unimaginable, incredible, fantastical

(1) **unbelievable** beauty, (2) cause **unbelievable** damage
He drinks an **unbelievable** amount of beer.

unbend

v. to relax or loosen up after a period of tension or seriousness; to straighten out or loosen something that was previously bent, twisted, or distorted

synonym : relax, loosen, unwind

(1) **unbend** a tense atmosphere, (2) **unbend** a difficult problem

I need to **unbend** the wire hanger to use it as a tool.

platinum

n. a dense, precious, silvery-white metal with the atomic number 78 and the symbol Pt that is highly resistant to corrosion and tarnishing, often used in jewelry, coins, and industrial applications

synonym : Pt, white gold

(1) **platinum** record, (2) **platinum** jewelry

The chemist worked with a **platinum** catalyst to speed up the reaction.

atom

n. the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

synonym : particle, element, fraction

(1) oxygen **atom**, (2) neutral hydrogen **atoms**

The outermost electron shell of an **atom** determines its chemical characteristics.

attach

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

synonym : fix, fasten, bind

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

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

flexible

adj. able to change or be changed to suit new conditions or situations; able to bend easily

synonym : adaptable, elastic, pliable

(1) **flexible** schedules, (2) a **flexible** wire

You can be more **flexible** and creative in your approach.

brawn

n. physical strength and muscular development; meat from a pig's or calf's head that has been cooked and jellied

synonym : muscle, power, strength

(1) **brawn** drain, (2) show off his **brawn**

The bodybuilder's **brawn** was impressive.

rigid

adj. extremely strict and difficult to change or adapt; incapable of or resistant to bending

synonym : strict, inflexible, stringent

(1) **rigid** rules, (2) **rigid** structure

He was unpopular because of his **rigid** adherence to the rules.

panel

n. a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something

synonym : board, commission, discussion

(1) **panel** discussion, (2) cost of solar **panels**

A **panel** of economic advisers from the United States visited the country to help rebuild its economy.

laser

n. a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification

synonym : beam, bar, ray

(1) **laser** printer, (2) pulse **laser**

The company holds patents on core components of **laser** jet printers.

chip

n. a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

synonym : flake, fragment, chunk

(1) a **chip** of wood, (2) I don't care a **chip**

We can use this campaign as a bargaining **chip** in the negotiations.

macro

n. (computing) a set of instructions that automate a frequently used series of keystrokes or mouse actions; (photography) a lens that allows you to take close-up photographs; (economics) a large-scale economic policy or system

synonym: large-scale, big-picture, major

(1) **macro** economy, (2) **macro** scale

Macro photography is a technique that allows you to take close-up photos of small objects.

microprocessor

n. a computer component containing all the functions of the central processing unit

synonym: IC, chip, microchip

(1) **microprocessor** chip, (2) dedicated **microprocessor**

As a result of improvements in **microprocessor** performance, many consumer electronics products are now Internet-connected.

microscope

n. an instrument used to see objects or substances that are too small to be seen with the naked eye

synonym: lens, magnifier, eyepiece

(1) **microscope** slide, (2) electron **microscope**

I used an optical **microscope** to observe the small organisms in the water sample.

release

v. to set free or allow to escape from confinement

synonym: free, let go, discharge

(1) **release** a prisoner, (2) **release** CO2 into the air

The animal rights group worked to **release** the dolphins back into the wild.

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.

involve

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

synonym : implicate, include, engage

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

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

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.

nasty

adj. very bad, unpleasant, or offensive

synonym : disgusting, offensive, foul

(1) a **nasty** smell, (2) receive a **nasty** surprise

The weather turned **nasty**.

deploy

v. to move troops or weapons into a position or military action; to bring into something in an effective way

synonym : set up, expand, launch

(1) **deploy** troops for battle, (2) **deploy** safety measures

This country **deployed** its weapons in the east region.

etch

v. to carve, cut, or engrave (a design or text) into a hard surface; to corrode, erode or eat away at a metal surface using acid or another chemical substance to create a design or pattern

synonym :

engrave, inscribe, carve

(1) **etch** a metal plate, (2) **etch** a design into wood

He used a sharp tool to **etch** his initials onto the metal.

substrate

n. a substance or layer from which an organism grows and lives and by which an organism is supported; a substance on which an enzyme or ferment act

(1) a silicon **substrate**, (2) **substrate** cell

Computational simulations help determine which **substrate** molecule is susceptible to change by specific enzymes.

underneath

adv. under or below something else

synonym: below, under, beneath

(1) **underneath** the surface of the water, (2) **underneath** the laughter

The penny fell **underneath** the piano.

dissolve

v. to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss

synonym: disband, disappear, liquefy

(1) **dissolve** the sugar, (2) officially **dissolved** the marriage

The political party **dissolved** after much internal fighting.

yield

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

synonym: proceeds, harvest, output

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

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

pipette

n. a slender tube or tube-like instrument used for measuring small quantities of liquid, often with a bulb at one end that can be squeezed to draw liquid inside

synonym: dropper, tube

(1) **pipette** tip, (2) multi-channel **pipette**

After handling a toxic substance, she disposed of the

contaminated **pipette** in the designated hazardous waste bin.

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.

inject

v. to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

synonym: shoot, infiltrate, insinuate

(1) **inject** under the skin, (2) **inject** a personal opinion into a debate

Let's try to **inject** a bit of enthusiasm into your performance.

hypodermic

adj. relating to the area below the skin; referring to a method of administering drugs or vaccines through a hypodermic needle or syringe

synonym: injectable, subcutaneous, intravenous

(1) **hypodermic** abscess, (2) **hypodermic** injection

The doctors administered the vaccine through a **hypodermic** needle.

needle

n. a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood

synonym: thorn, spike, pin

(1) **needle** prick, (2) sewing **needle**

The acupuncturist inserted **needles** into specific points on my body to alleviate my pain.

shark

n. a long-bodied, mostly predatory marine fish that has sharp teeth and a pointed fin on its back; a person who is ruthless, greedy, and dishonest

synonym: swindler, con artist, crook

(1) a man-eating **shark**, (2) card **shark**

He borrowed money from a loan **shark**.

suppose

v. to think that something is likely to be actual or possible
synonym : guess, assume, presume

(1) **suppose** you're right, (2) **suppose** beforehand

What do you **suppose** the culprit's motive was?

rectangle

n. a four-sided geometric shape with four right angles,
where opposite sides are parallel and of equal length

synonym : oblong, square, quadrangle

(1) orthogonal **rectangle**, (2) **rectangle** box

The living room had a **rectangle-shaped** coffee table in the center of it.

slide

v. to move or cause to move smoothly along a surface
without interruption

synonym : glide, drift, drop

(1) **slide** a card across the table, (2) **slide** a glance

If necessary, you can **slide** the front seats forward.

dot

n. a very small circular mark, especially one that is printed
synonym : drop, dab, fleck

(1) connecting the **dots**, (2) **dot** blot method

The wallpaper had a pattern of pink **dots** on a white surface.

spot

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

synonym : dot, mark, place

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

This remote **spot** is rarely visited.

march

v. to walk militarily with stiff, regular steps

synonym : parade

(1) **march** against the war, (2) **march** east

The troops **marched** shoulder-to-shoulder.

pilot

n. a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water

synonym : aviator, flyer, chief

(1) a test **pilot**, (2) **pilot** production

The **pilot** exercised great care in landing.

excitement

n. a feeling of great enthusiasm and eagerness

synonym : thrill, exhilaration, incitement

(1) the **excitement** in the business world, (2) aesthetic **excitement**

The **excitement** of the upcoming concert was palpable among the crowd.

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.

bloodstream

n. the blood flowing through the body

(1) **bloodstream** in an artery, (2) **bloodstream** to the brain
Cancer cells are often carried throughout the body by the **bloodstream**.

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.

crop

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

synonym : output, produce, product

(1) **crop** field, (2) **crop** herbicide
Sow early for an early **crop**.

rid

v. to make someone or something free of unwanted or unpleasant tasks, objects, or person

synonym: do away with, free, clear

(1) get **rid** of the rats, (2) **rid** the body of waste products

We must **rid** ourselves of pollution.

pest

n. a destructive insect or other animals that are harmful to crops, animals, or humans; someone or something that is annoying or troublesome

synonym: nuisance, problem, annoyance

(1) **pest** control, (2) a **pest** of bean plants

The gardener used natural methods to keep **pests** away from her plants.

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**.

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.

participate

v. to take part in something

synonym: take part, partake, enter

(1) **participate** fully in conversation, (2) **participate** in the program

The majority of students actively **participated** in the college's intramural sports program.

revolution

n. a large-scale attempt to overthrow the government of a country, often using violence or war;

synonym: coup, innovation, rebellion

(1) beginning of the industrial **revolution**, (2) a political **revolution**

The **revolution** by the citizen resulted in a redistribution of wealth.

jar

n. a cylindrical container, typically made of glass, metal, or pottery, with a wide mouth and a screwed or sealed lid, used for storing food, liquids, and other materials

synonym: container, vessel, pot

(1) a **jar** of jam, (2) a water **jar**

He placed the coins in a **jar** to save for a trip.

Session 2: Spelling

1. ma_____e amounts *adj.* enormous amount; very heavy and solid
2. h__t a job *v.* to go after and try to catch wild animals to kill them for food, sport, or profit
3. school req_____nt *n.* something that is needed or wanted
4. a bacterial in_____on *n.* a condition in which pathogenic microorganisms or viruses have entered the body
5. an in_____le asset *adj.* impossible or nearly impossible to see
6. su_____e you're right *v.* to think that something is likely to be actual or possible
7. z__m lens *v.* to move along very quickly; (noun) the act of rising upward into the air
8. blo_____am in an artery *n.* the blood flowing through the body
9. connecting the d_ts *n.* a very small circular mark, especially one that is printed
10. sl__e a glance *v.* to move or cause to move smoothly along a surface without interruption
11. fin_____nt at a crime scene *n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
12. un___d a tense atmosphere *v.* to relax or loosen up after a period of tension or seriousness; to straighten out or loosen something that was previously bent, twisted, or distorted

ANSWERS: 1. massive, 2. hunt, 3. requirement, 4. infection, 5. invisible, 6. suppose, 7. zoom, 8. bloodstream, 9. dot, 10. slide, 11. fingerprint, 12. unbend

13. ma__o economy *n.* (computing) a set of instructions that automate a frequently used series of keystrokes or mouse actions; (photography) a lens that allows you to take close-up photographs; (economics) a large-scale economic policy or system
14. show off his br__n *n.* physical strength and muscular development; meat from a pig's or calf's head that has been cooked and jellied
15. the vo_____e spiked *n.* the difference in the force of an electric current between two points
16. h__t after knowledge *v.* to go after and try to catch wild animals to kill them for food, sport, or profit
17. in_____te both businesses *v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups
18. su_____te cell *n.* a substance or layer from which an organism grows and lives and by which an organism is supported; a substance on which an enzyme or ferment act
19. ma_____e stars *adj.* enormous amount; very heavy and solid
20. ma__o scale *n.* (computing) a set of instructions that automate a frequently used series of keystrokes or mouse actions; (photography) a lens that allows you to take close-up photographs; (economics) a large-scale economic policy or system
21. ri__d structure *adj.* extremely strict and difficult to change or adapt; incapable of or resistant to bending

ANSWERS: 13. macro, 14. brawn, 15. voltage, 16. hunt, 17. integrate, 18. substrate, 19. massive, 20. macro, 21. rigid

22. me____al address *n.* a structure or monument to commemorate a person or event
23. un___d a difficult problem *v.* to relax or loosen up after a period of tension or seriousness; to straighten out or loosen something that was previously bent, twisted, or distorted
24. multi-channel pi____e *n.* a slender tube or tube-like instrument used for measuring small quantities of liquid, often with a bulb at one end that can be squeezed to draw liquid inside
25. par____um species *n.* a single-celled freshwater organism characterized by a slipper-like shape and the presence of cilia, used for movement and food gathering
26. pi__t production *n.* a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water
27. va___m cleaner *n.* a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
28. begin to r_t *v.* to decay, or cause something to decay, naturally and gradually
29. sem_____tor device *n.* a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices
30. c__p herbicide *n.* a plant that is cultivated in large amounts, particularly for food
31. strawberry wa__r *n.* a thin, flat, crisp biscuit or cake, often used as a communion element in religious services; a thin slice or piece of semiconductor material used in the production of computer chips and other electronic devices

ANSWERS: 22. memorial, 23. unbend, 24. pipette, 25. paramecium, 26. pilot, 27. vacuum, 28. rot, 29. semiconductor, 30. crop, 31. wafer

32. cause unb_____ble damage *adj.* beyond belief or understanding and extremely surprising
33. bl__k in astonishment *v.* to shut and open the eyes quickly; to gleam or glow in a regular or intermittent way
34. la__r printer *n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
35. card sh__k *n.* a long-bodied, mostly predatory marine fish that has sharp teeth and a pointed fin on its back; a person who is ruthless, greedy, and dishonest
36. go out of fa_____n *n.* a style that is popular at a particular time or place; the state of being popular
37. und_____th the surface of the water *adv.* under or below something else
38. in_____te into the existing system *v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups
39. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
40. sem_____tor industry *n.* a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices
41. 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

ANSWERS: 32. unbelievable, 33. blink, 34. laser, 35. shark, 36. fashion, 37. underneath, 38. integrate, 39. brain, 40. semiconductor, 41. cancer

42. ma__h east *v.* to walk militarily with stiff, regular steps
43. de___y safety measures *v.* to move troops or weapons into a position or military action; to bring into something in an effective way
44. par_____te fully in conversation *v.* to take part in something
45. in_____le stars *adj.* impossible or nearly impossible to see
46. mic_____pe slide *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
47. p__d water *n.* a small, shallow lake
48. the glow of a fi____y *n.* a flying nocturnal insect common in warm regions with a tail that shines in the dark
49. an int_____nt person *adj.* having the capacity for thought and reason, especially to a high degree
50. par_____te in the program *v.* to take part in something
51. sma_____ne app developer *n.* a mobile phone that functions as a computer and connects to the Internet
52. ac_____e the circuits *v.* to cause a machine or equipment to start to work
53. a test pi__t *n.* a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water
54. beam of el_____ons *n.* a tiny particle with the negative electrical charge
55. oc___y his time *v.* to consume all of someone's space, attention, or time

ANSWERS: 42. march, 43. deploy, 44. participate, 45. invisible, 46. microscope, 47. pond, 48. firefly, 49. intelligent, 50. participate, 51. smartphone, 52. actuate, 53. pilot, 54. electron, 55. occupy

56. re____e CO2 into the air *v.* to set free or allow to escape from confinement
57. d_t blot method *n.* a very small circular mark, especially one that is printed
58. r_t with age *v.* to decay, or cause something to decay, naturally and gradually
59. hyp_____ic injection *adj.* relating to the area below the skin; referring to a method of administering drugs or vaccines through a hypodermic needle or syringe
60. in_____e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
61. a garden p__d *n.* a small, shallow lake
62. cannot log in to the a_p *n.* (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC
63. me_____al park *n.* a structure or monument to commemorate a person or event
64. id_____fy gene sequences *v.* to recognize someone or something and say or prove who or what they are
65. meet req_____nt *n.* something that is needed or wanted
66. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
67. sa_____y a desire *v.* to make somebody pleased by giving them what they want or need
68. a j_r of jam *n.* a cylindrical container, typically made of glass, metal, or pottery, with a wide mouth and a screwed or sealed lid, used for storing food, liquids, and other materials

ANSWERS: 56. release, 57. dot, 58. rot, 59. hypodermic, 60. involve, 61. pond, 62. app, 63. memorial, 64. identify, 65. requirement, 66. complexity, 67. satisfy, 68. jar

69. 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
70. re_____e a prisoner *v.* to set free or allow to escape from confinement
71. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
72. 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
73. pl_____um record *n.* a dense, precious, silvery-white metal with the atomic number 78 and the symbol Pt that is highly resistant to corrosion and tarnishing, often used in jewelry, coins, and industrial applications
74. ad_____se on social media *v.* to draw attention to something such as a product, service, or event in public to encourage people to buy, use, or attend it
75. get r_d of the rats *v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person
76. cr_____re of habit *n.* a living being, especially an animal

ANSWERS: 69. circuit, 70. release, 71. complexity, 72. process, 73. platinum, 74. advertise, 75. rid, 76. creature

77. di____ve the sugar *v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
78. treat the in_____on with antibiotics *n.* a condition in which pathogenic microorganisms or viruses have entered the body
79. electron mic_____pe *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
80. z__m in on a photo *v.* to move along very quickly; (noun) the act of rising upward into the air
81. expansion of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
82. sa_____y a user's needs *v.* to make somebody pleased by giving them what they want or need
83. ex____e rebellion *v.* to make someone feel suddenly enthusiastic or eager
84. officially di_____ved the marriage *v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
85. e__h a design into wood *v.* to carve, cut, or engrave (a design or text) into a hard surface; to corrode, erode or eat away at a metal surface using acid or another chemical substance to create a design or pattern
86. musical ins_____nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

ANSWERS: 77. dissolve, 78. infection, 79. microscope, 80. zoom, 81. universe, 82. satisfy, 83. excite, 84. dissolve, 85. etch, 86. instrument

87. 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
88. pa__l discussion *n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
89. a ce____ar phone handset *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
90. ad_____se the campaign *v.* to draw attention to something such as a product, service, or event in public to encourage people to buy, use, or attend it
91. fl____le schedules *adj.* able to change or be changed to suit new conditions or situations; able to bend easily
92. 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

ANSWERS: 87. process, 88. panel, 89. cellular, 90. advertise, 91. flexible, 92. planet

93. a c__l of smoke *v.* to form or make something form into a curved or spiral shape; (noun) a round shape formed by a series of concentric circles
94. inc_____ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
95. get inc_____ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
96. fun_____al deafness *adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
97. ind_____us worker *adj.* hardworking, diligent, and persistent in effort
98. a water j_r *n.* a cylindrical container, typically made of glass, metal, or pottery, with a wide mouth and a screwed or sealed lid, used for storing food, liquids, and other materials
99. a s__t on his honor *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
100. 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
101. a pa_____el case *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations

ANSWERS: 93. curl, 94. incredibly, 95. incredibly, 96. functional, 97. industrious, 98. jar, 99. spot, 100. circuit, 101. parallel

102. the most am____g feeling *adj.* extremely surprising, especially in a way that you like or admire
103. sparkle like fi____y *n.* a flying nocturnal insect common in warm regions with a tail that shines in the dark
104. br__n drain *n.* physical strength and muscular development; meat from a pig's or calf's head that has been cooked and jellied
105. op____l fiber *adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
106. electronic de___e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
107. orthogonal re____le *n.* a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length
108. at___h firmly *v.* to fasten, join, or connect one thing to another
109. pa____el processing *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
110. dedicated mic_____sor *n.* a computer component containing all the functions of the central processing unit

ANSWERS: 102. amazing, 103. firefly, 104. brawn, 105. optical, 106. device, 107. rectangle, 108. attach, 109. parallel, 110. microprocessor

111. a political rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
112. the atmospheric tem_____re *n.* the degree of hotness or coldness of a thing or place
113. id_____fy handwriting *v.* to recognize someone or something and say or prove who or what they are
114. hyp_____ic abscess *adj.* relating to the area below the skin; referring to a method of administering drugs or vaccines through a hypodermic needle or syringe
115. tra_____or radio *n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics
116. dem_____te a difference *v.* to display something or give an exhibition to an interested audience
117. ex_____c vacation *adj.* originating from or characteristic of a foreign country or culture; strikingly unusual, uncommon, or intriguing
118. pr_____st the modern city *v.* to exist or occur before something else, especially referring to a time period or event; to predate or come before
119. und_____th the laughter *adv.* under or below something else
120. temporary me_____l treatment *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
121. sma_____ne addict *n.* a mobile phone that functions as a computer and connects to the Internet

ANSWERS: 111. revolution, 112. temperature, 113. identify, 114. hypodermic, 115. transistor, 116. demonstrate, 117. exotic, 118. preexist, 119. underneath, 120. medical, 121. smartphone

122. c__l around street corners *v.* to form or make something form into a curved or spiral shape; (noun) a round shape formed by a series of concentric circles
123. motion se___r lighting *n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
124. new op_____l glasses *adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
125. fre_____er aquatic bird *adj.* living in, found in, or connecting with water that does not contain salt
126. va___m packing *n.* a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
127. a c__e about the crime *n.* an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery
128. toxic ch_____als *adj.* relating to or connected with chemistry;
129. ne___e prick *n.* a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood
130. bl__k his eyes *v.* to shut and open the eyes quickly; to gleam or glow in a regular or intermittent way

ANSWERS: 122. curl, 123. sensor, 124. optical, 125. freshwater, 126. vacuum, 127. clue, 128. chemical, 129. needle, 130. blink

131. beginning of the industrial
rev_____on
132. save a pe__y
133. cost of solar pa__ls
134. blo_____am to the brain
135. en_____er shortage
136. pulse la__r
137. fire st__k
138. int_____nt assisting system
139. a sa_____er fish
- n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
- n.* a small denomination of currency or coin, typically the smallest unit of a currency system; in the US, a coin worth one cent
- n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
- n.* the blood flowing through the body
- n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
- n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
- v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
- adj.* having the capacity for thought and reason, especially to a high degree
- adj.* of or connected with seawater or water containing salt; living in or found in the sea

ANSWERS: 131. revolution, 132. penny, 133. panel, 134. bloodstream, 135. engineer, 136. laser, 137. stick, 138. intelligent, 139. saltwater

140. tra_____or circuit *n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics
141. in_____ct with one another *v.* to communicate or react with somebody
142. corn yi__d *n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
143. aesthetic exc_____nt *n.* a feeling of great enthusiasm and eagerness
144. a na__y smell *adj.* very bad, unpleasant, or offensive
145. mic_____sor chip *n.* a computer component containing all the functions of the central processing unit
146. 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
147. in____t a personal opinion into a debate *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
148. sl__e a card across the table *v.* to move or cause to move smoothly along a surface without interruption
149. in_____ct directly with customers *v.* to communicate or react with somebody

ANSWERS: 140. transistor, 141. interact, 142. yield, 143. excitement, 144. nasty, 145. microprocessor, 146. bacteria, 147. inject, 148. slide, 149. interact

150. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
151. a me_____l opinion *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
152. tracking de_____e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
153. su_____e beforehand *v.* to think that something is likely to be actual or possible
154. c__p field *n.* a plant that is cultivated in large amounts, particularly for food
155. 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
156. e__y his success *v.* to experience a feeling of jealousy or resentment towards someone because of their possessions, qualities, or achievements; to desire to have something that someone else has; (noun) a feeling of resentment or jealousy towards someone else's perceived advantage or success
157. pl____t like the Earth *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

ANSWERS: 150. involve, 151. medical, 152. device, 153. suppose, 154. crop, 155. cancer, 156. envy, 157. planet

158. de___y troops for battle *v.* to move troops or weapons into a position or military action; to bring into something in an effective way
159. ce_____ar and molecular biology *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
160. ac_____e a parking brake *v.* to cause a machine or equipment to start to work
161. dem_____te mastery *v.* to display something or give an exhibition to an interested audience
162. pe__y stock *n.* a small denomination of currency or coin, typically the smallest unit of a currency system; in the US, a coin worth one cent
163. mic_____isms in his gut *n.* a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope
164. the exc_____nt in the business world *n.* a feeling of great enthusiasm and eagerness
165. inc_____le amount *adj.* unbelievable; enormous
166. field of fun_____al medicine *adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
167. flow of el_____ons *n.* a tiny particle with the negative electrical charge

ANSWERS: 158. deploy, 159. cellular, 160. actuate, 161. demonstrate, 162. penny, 163. microorganism, 164. excitement, 165. incredible, 166. functional, 167. electron

168. ri__d rules *adj.* extremely strict and difficult to change or adapt; incapable of or resistant to bending
169. a ch____al compound *adj.* relating to or connected with chemistry;
170. st__k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
171. neutral hydrogen a__ms *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
172. a c__p of wood *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
173. pr____st the current political tensions *v.* to exist or occur before something else, especially referring to a time period or event; to predate or come before
174. artificial cr____re *n.* a living being, especially an animal
175. a p__t of bean plants *n.* a destructive insect or other animals that are harmful to crops, animals, or humans; someone or something that is annoying or troublesome
176. 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
177. theory of the un____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

ANSWERS: 168. rigid, 169. chemical, 170. stick, 171. atom, 172. chip, 173. preexist, 174. creature, 175. pest, 176. neuron, 177. universe

178. par_____um reproduction *n.* a single-celled freshwater organism characterized by a slipper-like shape and the presence of cilia, used for movement and food gathering
179. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
180. com_____te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
181. in____t under the skin *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
182. fin_____nt identification *n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
183. sa_____er crocodile *adj.* of or connected with seawater or water containing salt; living in or found in the sea
184. wi_____ss access *adj.* of or relating a connection or communication that does not require a physical wire or cable, often through the use of radio waves or electromagnetic signals
185. 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
186. surgical ins_____nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

ANSWERS: 178. paramecium, 179. engineer, 180. communicate, 181. inject, 182. fingerprint, 183. saltwater, 184. wireless, 185. neuron, 186. instrument

187. beauty s__t *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
188. ma__h against the war *v.* to walk militarily with stiff, regular steps
189. 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
190. oxygen a__m *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
191. unb____ble beauty *adj.* beyond belief or understanding and extremely surprising
192. com____te his anxieties to the psychiatrist *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
193. low vo____e *n.* the difference in the force of an electric current between two points
194. receive a na__y surprise *adj.* very bad, unpleasant, or offensive
195. I don't care a c__p *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
196. p__t control *n.* a destructive insect or other animals that are harmful to crops, animals, or humans; someone or something that is annoying or troublesome

ANSWERS: 187. spot, 188. march, 189. bacteria, 190. atom, 191. unbelievable, 192. communicate, 193. voltage, 194. nasty, 195. chip, 196. pest

197. ex___e the crowd *v.* to make someone feel suddenly enthusiastic or eager
198. killer a_p *n.* (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC
199. pi_____e tip *n.* a slender tube or tube-like instrument used for measuring small quantities of liquid, often with a bulb at one end that can be squeezed to draw liquid inside
200. pl_____um jewelry *n.* a dense, precious, silvery-white metal with the atomic number 78 and the symbol Pt that is highly resistant to corrosion and tarnishing, often used in jewelry, coins, and industrial applications
201. at___h a file to an e-mail *v.* to fasten, join, or connect one thing to another
202. the yi__d on the bond *n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
203. extreme tem_____res *n.* the degree of hotness or coldness of a thing or place
204. a c__e to the diagnosis *n.* an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery
205. r_d the body of waste products *v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person

ANSWERS: 197. excite, 198. app, 199. pipette, 200. platinum, 201. attach, 202. yield, 203. temperature, 204. clue, 205. rid

206. pathogenic mic_____ism *n.* a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope
207. wi_____ss charging *adj.* of or relating a connection or communication that does not require a physical wire or cable, often through the use of radio waves or electromagnetic signals
208. fre_____er area *adj.* living in, found in, or connecting with water that does not contain salt
209. an image se____r *n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
210. am_____g advances *adj.* extremely surprising, especially in a way that you like or admire
211. ind_____us student *adj.* hardworking, diligent, and persistent in effort
212. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
213. ex____c species *adj.* originating from or characteristic of a foreign country or culture; strikingly unusual, uncommon, or intriguing
214. feeling e__y toward him *v.* to experience a feeling of jealousy or resentment towards someone because of their possessions, qualities, or achievements; to desire to have something that someone else has; (noun) a feeling of resentment or jealousy towards someone else's perceived advantage or success

ANSWERS: 206. microorganism, 207. wireless, 208. freshwater, 209. sensor, 210. amazing, 211. industrious, 212. brain, 213. exotic, 214. envy

215. new fa_____n trends *n.* a style that is popular at a particular time or place; the state of being popular
216. a fl_____le wire *adj.* able to change or be changed to suit new conditions or situations; able to bend easily
217. sewing ne____e *n.* a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood
218. e__h a metal plate *v.* to carve, cut, or engrave (a design or text) into a hard surface; to corrode, erode or eat away at a metal surface using acid or another chemical substance to create a design or pattern
219. re_____le box *n.* a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length
220. oc___y a position *v.* to consume all of someone's space, attention, or time
221. at inc_____le speed *adj.* unbelievable; enormous
222. a silicon su_____te *n.* a substance or layer from which an organism grows and lives and by which an organism is supported; a substance on which an enzyme or ferment act
223. a man-eating sh__k *n.* a long-bodied, mostly predatory marine fish that has sharp teeth and a pointed fin on its back; a person who is ruthless, greedy, and dishonest

ANSWERS: 215. fashion, 216. flexible, 217. needle, 218. etch, 219. rectangle, 220. occupy, 221. incredible, 222. substrate, 223. shark

224. wa__r cleaning system

n. a thin, flat, crisp biscuit or cake, often used as a communion element in religious services; a thin slice or piece of semiconductor material used in the production of computer chips and other electronic devices

ANSWERS: 224. wafer

Session 3: Fill in the Blanks

1. We must ____ ourselves of pollution.
 - v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person

2. The company develops and sells _____ memory for use in computers and servers.
 - n.* a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices

3. _____ robots that can cooperate with humans have limited motor output for safety.
 - adj.* having the capacity for thought and reason, especially to a high degree

4. The acupuncturist inserted _____ into specific points on my body to alleviate my pain.
 - n.* a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood

5. 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

6. Please refrigerate the meat, or it will _____.
 - v.* to decay, or cause something to decay, naturally and gradually

7. A _____ of economic advisers from the United States visited the country to help rebuild its economy.
 - n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something

ANSWERS: 1. rid, 2. semiconductor, 3. Intelligent, 4. needles, 5. brain, 6. rot, 7. panel

8. 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
9. He placed the coins in a ____ to save for a trip.
- n.* a cylindrical container, typically made of glass, metal, or pottery, with a wide mouth and a screwed or sealed lid, used for storing food, liquids, and other materials
10. We want to _____ our company through your media.
- v.* to draw attention to something such as a product, service, or event in public to encourage people to buy, use, or attend it
11. The cat _____ into a ball and went to sleep.
- v.* to form or make something form into a curved or spiral shape; (noun) a round shape formed by a series of concentric circles
12. That style is no longer in _____.
- n.* a style that is popular at a particular time or place; the state of being popular
13. The ecosystem upstream of the river significantly impacts the _____ ecosystem downstream.
- adj.* of or connected with seawater or water containing salt; living in or found in the sea
14. The firm has grown into a large _____ manufacturing.
- adj.* relating to or connected with chemistry;
15. He used a sharp tool to _____ his initials onto the metal.
- v.* to carve, cut, or engrave (a design or text) into a hard surface; to corrode, erode or eat away at a metal surface using acid or another chemical substance to create a design or pattern

ANSWERS: 8. neuron, 9. jar, 10. advertise, 11. curled, 12. fashion, 13. saltwater, 14. chemical, 15. etch

16. I need to _____ the wire hanger to use it as a tool.

- v.* to relax or loosen up after a period of tension or seriousness; to straighten out or loosen something that was previously bent, twisted, or distorted

17. The penny fell _____ the piano.

- adv.* under or below something else

18. The outermost electron shell of an _____ determines its chemical characteristics.

- n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

19. The _____ exercised great care in landing.

- n.* a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water

20. 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

21. The solar panel uses high-quality silicon _____ to convert sunlight into electricity efficiently.

- n.* a thin, flat, crisp biscuit or cake, often used as a communion element in religious services; a thin slice or piece of semiconductor material used in the production of computer chips and other electronic devices

22. Cities around the world set records for highest _____ this summer.

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

23. Several cities are experiencing _____ high unemployment rates.

- adv.* in a way that is very difficult to believe; exceedingly or extremely

ANSWERS: 16. unbend, 17. underneath, 18. atom, 19. pilot, 20. vacuum, 21. wafers, 22. temperatures, 23. incredibly

24. The deep sea _____ was unlike anything the scientists had ever seen before.

n. a living being, especially an animal

25. This factory employs a _____ manufacturing system.

adj. of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

26. I always carry a backup _____ in case my phone runs out of battery.

n. a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

27. The golfer recorded an _____ distance.

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

28. He walked a road _____ to the railroad.

adj. being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations

29. Sow early for an early _____.

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

30. The _____ illusion made it appear like the building was floating in midair.

adj. of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

31. The phenomenon is _____ at optical wavelengths.

adj. impossible or nearly impossible to see

ANSWERS: 24. creature, 25. cellular, 26. device, 27. amazing, 28. parallel, 29. crop, 30. optical, 31. invisible

32. The office's _____ network allows employees to work from anywhere in the building.

adj. of or relating a connection or communication that does not require a physical wire or cable, often through the use of radio waves or electromagnetic signals

33. 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

34. What do you _____ the culprit's motive was?

v. to think that something is likely to be actual or possible

35. The young prince will soon _____ the throne.

v. to consume all of someone's space, attention, or time

36. He found that it is difficult to _____ socially.

v. to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups

37. The outermost _____ shell determines the chemical properties of an atom.

n. a tiny particle with the negative electrical charge

38. The invention of the _____ revolutionized the field of electronics.

n. a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics

39. The company's stock gives a high _____.

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

ANSWERS: 32. wireless, 33. planet, 34. suppose, 35. occupy, 36. integrate, 37. electron, 38. transistor, 39. yield

40. Cancer cells are often carried throughout the body by the _____.
- n.* the blood flowing through the body
41. Hospitals must meet various standards to prevent nosocomial _____.
- n.* a condition in which pathogenic microorganisms or viruses have entered the body
42. _____ photography is a technique that allows you to take close-up photos of small objects.
- n.* (computing) a set of instructions that automate a frequently used series of keystrokes or mouse actions; (photography) a lens that allows you to take close-up photographs; (economics) a large-scale economic policy or system
43. I can't help but _____ my friend's ability to stay calm in stressful situations.
- v.* to experience a feeling of jealousy or resentment towards someone because of their possessions, qualities, or achievements; to desire to have something that someone else has; (noun) a feeling of resentment or jealousy towards someone else's perceived advantage or success
44. Internet traffic volumes have increased significantly with the advent of _____.
- n.* a mobile phone that functions as a computer and connects to the Internet
45. The freshwater _____ was home to many different types of fish and was a popular spot for fishing.
- n.* a small, shallow lake
46. The living room had a _____ coffee table in the center of it.
- n.* a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length

ANSWERS: 40. bloodstream, 41. infections, 42. Macro, 43. envy, 44. smartphones, 45. pond, 46. rectangle-shaped

47. The wallpaper had a pattern of pink _____ on a white surface.
n. a very small circular mark, especially one that is printed
48. This electronic _____ is required to undergo periodic inspections to ensure precision.
n. an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
49. After handling a toxic substance, she disposed of the contaminated _____ in the designated hazardous waste bin.
n. a slender tube or tube-like instrument used for measuring small quantities of liquid, often with a bulb at one end that can be squeezed to draw liquid inside
50. The _____ of the upcoming concert was palpable among the crowd.
n. a feeling of great enthusiasm and eagerness
51. The company holds patents on core components of _____ jet printers.
n. a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
52. The _____ by the citizen resulted in a redistribution of wealth.
n. a large-scale attempt to overthrow the government of a country, often using violence or war;
53. The _____ colony flourished in the petri dish, providing a perfect sample for our experiment.
n. a single-celled freshwater organism characterized by a slipper-like shape and the presence of cilia, used for movement and food gathering
54. _____ 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

ANSWERS: 47. dots, 48. instrument, 49. pipette, 50. excitement, 51. laser, 52. revolution, 53. paramecium, 54. Bacteria

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

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

56. 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

57. He should _____ more with his colleagues.

v. to communicate or react with somebody

58. This country _____ its weapons in the east region.

v. to move troops or weapons into a position or military action; to bring into something in an effective way

59. He was known to be very _____ and would often work late into the night.

adj. hardworking, diligent, and persistent in effort

60. 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

61. He was unpopular because of his _____ adherence to the rules.

adj. extremely strict and difficult to change or adapt; incapable of or resistant to bending

62. He _____ in the dazzling sunlight.

v. to shut and open the eyes quickly; to gleam or glow in a regular or intermittent way

ANSWERS: 55. functional, 56. process, 57. interact, 58. deployed, 59. industrious, 60. complexity, 61. rigid, 62. blinked

63. Computational simulations help determine which _____ molecule is susceptible to change by specific enzymes.
- n.* a substance or layer from which an organism grows and lives and by which an organism is supported; a substance on which an enzyme or ferment act
64. 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
65. I love trying _____ foods from different cultures.
- adj.* originating from or characteristic of a foreign country or culture; strikingly unusual, uncommon, or intriguing
66. He borrowed money from a loan _____.
- n.* a long-bodied, mostly predatory marine fish that has sharp teeth and a pointed fin on its back; a person who is ruthless, greedy, and dishonest
67. The animal rights group worked to _____ the dolphins back into the wild.
- v.* to set free or allow to escape from confinement
68. The weather turned _____.
- adj.* very bad, unpleasant, or offensive
69. He _____ back in time to the soccer game.
- v.* to move along very quickly; (noun) the act of rising upward into the air
70. The discovery of a critical bug caused the company to delay the _____ release.
- n.* (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC

ANSWERS: 63. substrate, 64. cancer, 65. exotic, 66. shark, 67. release, 68. nasty, 69. zoomed, 70. app's

71. He drinks an _____ amount of beer.

adj. beyond belief or understanding and extremely surprising

72. What is the entry _____ for this course?

n. something that is needed or wanted

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

adj. enormous amount; very heavy and solid

74. The idea for the novel _____ as fragments of a dream in the author's mind.

v. to exist or occur before something else, especially referring to a time period or event; to predate or come before

75. You _____ a bill in the change machine, and the coins pop out.

v. to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

76. If necessary, you can _____ the front seats forward.

v. to move or cause to move smoothly along a surface without interruption

77. I found a lucky _____ on the ground while walking to work this morning.

n. a small denomination of currency or coin, typically the smallest unit of a currency system; in the US, a coin worth one cent

78. This _____ is a producer of respiratory disease.

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

ANSWERS: 71. unbelievable, 72. requirement, 73. massive, 74. preexisted, 75. stick, 76. slide, 77. penny, 78. microorganism

79. This remote _____ is rarely visited.

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

80. In that country, there is a culture of eating live _____ squid.

- n.* a flying nocturnal insect common in warm regions with a tail that shines in the dark

81. The investigation _____ several government agencies and is expected to take several months.

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

82. You can be more _____ and creative in your approach.

- adj.* able to change or be changed to suit new conditions or situations; able to bend easily

83. The majority of students actively _____ in the college's intramural sports program.

- v.* to take part in something

84. Let's try to _____ a bit of enthusiasm into your performance.

- v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

85. The police used a _____ scanner to identify the suspect.

- n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person

86. The _____ team worked quickly to save the patient's life.

- adj.* relating to the treatment of illness or injuries; relating to the practice of medicine

ANSWERS: 79. spot, 80. firefly, 81. involves, 82. flexible, 83. participated, 84. inject, 85. fingerprint, 86. medical

87. The bodybuilder's _____ was impressive.

- n.* physical strength and muscular development; meat from a pig's or calf's head that has been cooked and jellied

88. As a result of improvements in _____ performance, many consumer electronics products are now Internet-connected.

- n.* a computer component containing all the functions of the central processing unit

89. Dolphins use sound to _____ with each other.

- v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals

90. This microbe is a parasite of _____ fish.

- adj.* living in, found in, or connecting with water that does not contain salt

91. The police couldn't find a _____ to her whereabouts.

- n.* an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery

92. Connecting batteries in series increase the _____ of the circuit.

- n.* the difference in the force of an electric current between two points

93. The gardener used natural methods to keep _____ away from her plants.

- n.* a destructive insect or other animals that are harmful to crops, animals, or humans; someone or something that is annoying or troublesome

94. Did this response _____ your request?

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

ANSWERS: 87. brawn, 88. microprocessor, 89. communicate, 90. freshwater, 91. clue, 92. voltage, 93. pests, 94. satisfy

95. The _____ will repair my telephone tomorrow morning.
- n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
96. How can you _____ that the earth is a sphere?
- v.* to display something or give an exhibition to an interested audience
97. The war _____ stands as a reminder of the sacrifices made by our ancestors.
- n.* a structure or monument to commemorate a person or event
98. He does not _____ importance to these rumors.
- v.* to fasten, join, or connect one thing to another
99. I used an optical _____ to observe the small organisms in the water sample.
- n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
100. The troops _____ shoulder-to-shoulder.
- v.* to walk militarily with stiff, regular steps
101. Hounds _____ their prey by using their keen scent.
- v.* to go after and try to catch wild animals to kill them for food, sport, or profit
102. This automatic door could no longer be opened due to a _____ failure.
- n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner

ANSWERS: 95. engineer, 96. demonstrate, 97. memorial, 98. attach, 99. microscope, 100. marched, 101. hunt, 102. sensor

103. Her response revealed _____ idiocy.

adj. unbelievable; enormous

104. I will introduce you to how to _____ the leading causes of the malfunction.

v. to recognize someone or something and say or prove who or what they are

105. We can use this campaign as a bargaining _____ in the negotiations.

n. a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

106. A desire for success _____ her.

v. to cause a machine or equipment to start to work

107. 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

108. The chemist worked with a _____ catalyst to speed up the reaction.

n. a dense, precious, silvery-white metal with the atomic number 78 and the symbol Pt that is highly resistant to corrosion and tarnishing, often used in jewelry, coins, and industrial applications

109. The political party _____ after much internal fighting.

v. to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss

110. The doctors administered the vaccine through a _____ needle.

adj. relating to the area below the skin; referring to a method of administering drugs or vaccines through a hypodermic needle or syringe

ANSWERS: 103. incredible, 104. identify, 105. chip, 106. actuated, 107. circuit, 108. platinum, 109. dissolved, 110. hypodermic

111. The _____ is about 13.8 billion years old.

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

112. The news of her promotion _____ her.

- v.* to make someone feel suddenly enthusiastic or eager

ANSWERS: 111. universe, 112. excited