# **Englist.me**

# Vocabulary Builder Reference from...

Manu Prakash: A 50-cent microscope that folds like origami | TED Talk https://www.ted.com/talks/manu\_prakash\_a\_50\_cent \_microscope\_that\_folds\_like\_origami



# **All Words**

#### **IMPORTANT**

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# **Session 1: Word List**

#### invention

- 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**.

#### microscope

- n. an instrument used to see objects or substances that are too small to be seen with the naked eyesynonym: lens, magnifier, eyepiece
- (1) **microscope** slide, (2) electron **microscope**I used an optical **microscope** to observe the small organisms in the water sample.

#### life-form

- a living organism, especially one that has a distinct shape, structure, or behavior
- synonym: organism, species, living organism
- (1) life-form discovery, (2) a minute life-form
   Scientists are searching for signs of life-form on other planets.

#### invisible

- adj. impossible or nearly impossible to seesynonym: hidden, imperceptible, unseen
- (1) an **invisible** asset, (2) **invisible** stars

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

#### 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.

# discovery

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

*synonym*: finding, uncovering, detection

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

Her research team made an important discovery.

#### disease

 a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

synonym: illness, ailment, affliction

(1) disease prevention, (2) disease control

The doctor diagnosed him with a rare **disease** that had no known cure.

#### monster

 an imaginary creature that is large and has various human and animal parts; someone or something large and powerful

synonym: giant, freak, behemoth

(1) horde of **monsters**, (2) **monster** film

This car has a **monster** engine.

# develop

v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

synonym: evolve, progress, advance

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

We must **develop** a new system to streamline our workflow and increase efficiency.

belt

 to sing loudly and forcefully; to hit someone or something hard; (noun) a strip of leather or other material worn to tie or buckle something around the body

synonym: sing, hit hard, (noun) strap

(1) **belt** him in the face, (2) leather **belt** 

The band was **belting** out old songs in response to audience requests.

malaria

- a severe disease caused by a parasite that is spread by the bite of an infected mosquito
- (1) **malaria** mosquitoes, (2) **malaria-endemic** area Many people in tropical countries die from **malaria** every year.

infection

 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**.

stain

v. to discolor, defile, or tarnish something; (noun) a discoloration or dirty mark on a surface that is difficult to remove

synonym: discolor, tarnish, defile

(1) stain the carpet, (2) red wine stain

The allegations of corruption **stained** her reputation, and she struggled to regain public trust.

fluorescent

adj. emitting or reflecting vibrant and vivid light, especially under ultraviolet light; describing a type of lamp or bulb

that produces such light

synonym: luminescent, phosphorescent, radiant

(1) fluorescent bulb, (2) fluorescent material

The office installed new **fluorescent** lighting to save energy.

# diagnose

v. to determine or distinguish the nature of a problem or an illness through a careful analysis

synonym: identify, analyze, interpret

(1) **diagnose** the problem, (2) **diagnose** with CT scans This device is used to **diagnose** brain cancer and other tumors.

# primarily

adv. mainly

synonym: largely, mainly, mostly

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

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

#### scalable

adj. capable of being easily expanded or increased in size, number, or scale to meet changing demands

synonym: expandable, flexible, adjustable

(1) **scalable** solution, (2) dynamically **scalable** 

The company's new software is highly **scalable**, allowing it to handle increasing number of users.

# pinnacle

n. the highest point or peak of something, particularly a mountain or a career; the greatest or highest level of achievement or success

synonym: summit, peak, apex

(1) architectural **pinnacle**, (2) reached the **pinnacle** Climbing to the **pinnacle** of the mountain is a challenge that many outdoor enthusiasts strive to achieve.

#### modern

adj. of or belonging to the present time or recent times synonym: contemporary, stylish, current

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

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

# bulky

adj. taking up much space or being difficult to move because of its size or weight; large and unwieldy

synonym: large, cumbersome, unwieldy

(1) bulky material, (2) bulky packaging

The **bulky** furniture made it difficult to move around the small room.

#### maintain

v. to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true

synonym: preserve, uphold, sustain

mechanical issues.

(1) maintain order, (2) maintain good healthI need to maintain my car regularly to prevent any major

# setup

 the arrangement or organization of something, often with a specific purpose or intention; a scheme or plan that is intended to deceive or trick someone

synonym: arrangement, installation, organization

(1) office **setup**, (2) network **setup** 

The **setup** for the conference was impressive and professional.

#### ashram

 a secluded religious community or retreat center where people practice yoga, meditation, and other spiritual disciplines under the guidance of a teacher or guru

synonym: meditation center, spiritual retreat, monastery

(1) meditation **ashram**, (2) live cloistered away in an **ashram** 

Yoga practitioners often retreat to an **ashram** for intensive meditation and study.

#### Don

- a Spanish gentleman; a university lecturer, especially a senior member of a college at Oxford or Cambridge
- (1) the **don** of the university, (2) **Don** Giovanni

He could never go against what **Don** Carlos said.

# equip

 to provide a person or a place with the things that are needed for a particular purpose or activity

synonym: prepare, furnish, provide

(1) **equip** an army, (2) **equip** our children with some special skills

The construction company **equipped** the building with an earthquake-resistant device.

# fungus

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

synonym: mold, mildew, yeast

(1) fungus infection, (2) symbiotic fungus

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

#### lens

n. a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation

synonym: glass

a convex lens,
 a lens with a wide angle
 the photographer took this photo using a telephoto lens.

# **functional**

- adj. designed for or capable of a particular activity, purpose, or task; practical or ready for use or servicesynonym: applicable, practical, usable
- (1) field of **functional** medicine, (2) **functional** deafness The mobile phone was still **functional** even after being dropped.

# platform

n. the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a

computational or digital environment in which a piece of software is executed

synonym: stage, podium, forum

(1) an arrival **platform**, (2) a digital **platform** for enterprise The speaker mounted the **platform** and started to speak.

#### fluorescence

n. the property of certain substances to absorb light at one wavelength and emit light at a longer wavelength, often producing a visible glow or color change; the visible light or color change resulting from this process

synonym: glow, luminescence, radiance

(1) **fluorescence** microscopy, (2) **fluorescence** labeling The **fluorescence** of the green dye made it easy to see the bacteria under the microscope.

# polarization

 the division or separation of something into two opposing or contrasting groups or factions; the condition of being polarized or having poles

synonym: polarity, division, separation

(1) **polarization** effect, (2) dielectric **polarization**The **polarization** of political views has created a deep divide in the country.

#### advance

- v. to go or move forward; to develop in a positive way synonym: progress, boost, come along
- (1) **advance** the technology, (2) **advance** a cooperative relationship

Scientific knowledge will **advance** significantly with the power of AI.

# microscopy

 the scientific study of small structures or substances using microscopes, including the anatomical, physiological, and pathological aspects of cells, tissues, and organs

synonym: microanalysis, magnification

(1) clinical microscopy, (2) electron microscopy

The scientist used a **microscopy** technique to study the cells at a microscopic level.

### component

 one of several parts that combines with others to form something bigger

synonym: element, part, factor

(1) key **component**, (2) spare **components** for cars

The researchers try to discover a common **component** in all types of successful organizations.

# 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.

### illumination

 light or source of light; the degree of visibility of your environment

synonym: light, luminosity, brightness

(1) starry illumination, (2) indirect illumination

The skylight will give adequate illumination from above.

#### mask

v. to conceal something; (noun) a covering that you wear over your face to hide it

synonym: disguise, camouflage, conceal

(1) mask body odor, (2) an oxygen mask

The politician tried to **mask** the corruption.

#### micro

- n. extremely small in scale or scope; one millionth
- (1) micro bubble, (2) micro force sensor

This approach employs both **micro** and macro analysis methods.

# optics

n. the academic study of vision and light

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(1) optics technology, (2) fiber optics

Einstein's new **optics** theory transformed traditional scientific notions about light.

#### embedded

adj. fixed firmly into the surface of something synonym: ingrained, implanted, inserted

(1) embedded systems, (2) LED- embedded glass

The **embedded** chip in my credit card allows me to make contactless payments.

toy

 a thing, typically a small model or replica of something that is played with, especially by children

synonym: plaything, game, trinket

(1) toy store, (2) toy box

He gave his daughter a new **toy** for her birthday.

tab

 a small flap or strip of material attached to or projecting from something; the key on a typewriter or a word processor that causes a tabulation; a bill

synonym: tag, label, marker

(1) split a dinner tab, (2) open a tab

He kept a **tab** on his expenses by writing them down in a notebook.

#### instruction

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.

#### specific

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

synonym: particular, definite, distinct

(1) **specific** instructions, (2) industry- **specific** regulations
The scientist conducted a study that provided **specific** details

about the species' behavior.

#### 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.

# optimize

- v. to make the best or most effective use of something synonym: advance, amend, improve
- (1) **optimize** a process, (2) **optimize** control for cooling The essence of economics is to **optimize** the allocation of limited resources.

#### flex

v. to show off one's strength, power, or possessions; to bend or be capable of bending easily

synonym: bend, stretch, extend

(1) **flex** a finger, (2) **flex** diplomatic muscle

The gymnast was able to **flex** his muscles to perform the difficult routine.

#### mechanism

 a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

synonym: means, method, system

(1) the **mechanism** for DNA replication, (2) defense **mechanism** 

He discovered unique **mechanisms** for photochemical reactions.

#### micron

 a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms

synonym: micrometer

micron measurements, (2) micron imaging
 width of a single human hair is around 100 microns.

#### device

 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.

# stomp

v. to walk heavily and noisily, often with a rhythmical sound; to dance with a rhythmical step

synonym: trample, tread, dance

(1) **stomp** off to the room, (2) **stomp** on his foot The children **stomped** their feet in time to the music.

#### 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.

### envelop

- v. to surround and cover completely; to encase
- synonym: wrap, cover, surround
- (1) **envelop** the whole world, (2) **envelop** her in a bear hug The fog **enveloped** the city, making it difficult to see.

# configuration

 the arrangement or pattern of something or a group of related things

synonym: arrangement, composition, formatting

(1) **configuration** of the system, (2) engine **configuration**The **configuration** of molecules in steel changes significantly with temperature.

#### random

adj. made, done, or happening without method, conscious decision, or any regular pattern

synonym: incidental, arbitrary, unanticipated

(1) a random choice, (2) bombs fell at random

To find drunk drivers, police conduct **random** tests.

# specifically

adv. only associated with or meant for one thing synonym: especially, particularly, notably

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

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

filter

 any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light

synonym: strainer

(1) gas filter, (2) clogged filter

Ozone is a primary **filter** to protect Earth's surface from harmful UV rays.

dim

adj. poorly lit; not bright
synonym: dull, faint, weak

(1) **dim** and distant past, (2) **dim** memory

The **dim** light made it difficult to read the book.

cross-section

n. a two-dimensional representation of a slice or portion of a three-dimensional object or structure, showing the internal arrangement and relationship of its parts; a sample or subset of a larger population or entity that allows insight into its characteristics or behavior

synonym: section, segment, slice

(1) cross-section diagram, (2) cross-section view

The **cross-section** of the tree trunk showed its growth rings.

compound

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

*synonym*: combination, mixture, blend

(1) aquatic **compound**, (2) harmful **compound**. Common salt is a sodium and chlorine **compound**.

#### 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.

#### axis

 a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance

synonym: central, core, pole

(1) vertical axis, (2) a coordinate axis

The earth's **axis** of rotation is tilted 66.5 degrees to the ecliptic plane.

#### insect

- any small creature that has six legs and a body divided into three sections
- (1) **insect** antenna, (2) **insect** biology

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

# mosquito

 a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria

synonym: insect, bug, flea

(1) mosquito bite, (2) mosquito repellent

A stagnant water area are breeding ground for **mosquitos**.

#### antenna

 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

# waterproof

adj. not permitting the passage of water synonym: watertight, impervious, rainproof

(1) the **waterproof** coat, (2) **waterproof** packing My mother gave me a **waterproof** watch.

### scope

*n.* the range of one's perceptions, thoughts, or actions, or a subject that

synonym: content, coverage, extent

(1) **scope** of a project, (2) have broad **scope** 

The **scope** of human thought is diverse.

#### beam

 a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source

synonym: ray, ray of light, shaft of light

(1) **beam** of light, (2) a structural **beam** of a building The sun's **beam** shone through the window and illuminated the room.

#### manufacture

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

*synonym*: create, fabricate, assemble

- (1) **manufacture** an enzyme, (2) **manufacture** a product The majority of synthetic vitamins are **manufactured** from oil.
- v. to move in a particular direction by turning over and over or from side to side

synonym: spin, swirl, wheel

(1) **roll** a ball, (2) **roll** down his cheeks

He was exhausted and **rolled** into bed as soon as he got home.

# paradigm

roll

 a standard or typical example of something; a pattern or model

synonym: example, standard, epitome

(1) major **paradigm** shift, (2) cultural **paradigm**He postulated a completely different **paradigm** to explain all these phenomena.

### snapshot

- n. an informal photograph, especially one taken quicklysynonym: photo, picture, print
- (1) take a snapshot, (2) developed snapshot

There were framed **snapshots** of family and friends in her room.

#### inset

- n. an object or design that is set into or inserted within another, typically as a decorative or contrasting elementsynonym: insert, interjection, addition
- (1) inset map, (2) inset table

The designer added an **inset** border to the image to give it a more polished look.

# throughput

 the amount of material or information that can be processed by a system or organization over a given period of time

synonym: output, capacity

(1) workplace **throughput**, (2) network **throughput**The data center's **throughput** is impressive, allowing for quick processing of large amounts of data.

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.

# assembly

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

synonym: crowd, gathering, mass

(1) assembly line, (2) assembly hall

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

# achromatic

adj. lacking or without color; having no hue or saturation; referring to shades of gray or black and white

synonym: colorless, neutral, uncolored

(1) **achromatic** color, (2) **achromatic** microscope

The scientist used an **achromatic** lens to produce clear and accurate images.

# essentially

adv. relating to the essential features or concepts of anything synonym: fundamentally, basically, virtually

(1) **essentially** correct, (2) become **essentially** same **Essentially**, a society is an organism.

# origami

 the Japanese art or practice of folding paper into decorative shapes and figures

synonym: paper folding, paper art

(1) origami paper, (2) origami artI love making origami cranes during my free time.

# precision

- n. the quality or condition of being exact and accuratesynonym: accuracy, exactness, rigor
- (1) a **precision** instrument, (2) speak with **precision**This operation requires both patience and **precision**.

# alignment

- n. an arrangement in which two or more elements are placed in a straight line or parallel to each othersynonym: conjunction, arrangement, coalition
- (1) **alignment** in an organization, (2) be in **alignment** In the last century, Britain formed a strong **alignment** with Egypt.

### aspect

- n. one part or feature of a situation, problem, subject, etc.synonym: characteristic, element, factor
- nontechnical aspects of the job, (2) aspects of social, political, and economic life
   His professional experience includes all aspects of media production.

# 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.

# 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**.

#### 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.

# typical

adj. having the usual characteristics or traits of a specific group of things

synonym: characteristic, usual, distinctive

(1) **typical** leader, (2) fairly **typical** symptoms This artwork is **typical** of her work.

#### robust

adj. sturdy and healthy in form, constitution, or construction;
 strong enough to withstand or overcome intellectual
 challenges or adversity

synonym: healthy, strong, booming

(1) robust growth, (2) a robust appetite

The experiment yielded **robust** results that support his theory.

#### survive

- v. to live or exist despite a dangerous event or period synonym: endure, persist, stay
- (1) **survive** a blizzard, (2) **survive** a plane crash These birds can only **survive** in temperate climates.

# 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?

# patient

 a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic

synonym: client, recipient, subject

(1) **patient** in the hospital, (2) **patient** with weight loss. The doctor carefully examined the **patient's** medical history.

# anticipate

 to expect or predict that something will happen; to tell in advance

synonym: forecast, predict, expect

(1) **anticipate** your kind cooperation, (2) **anticipate** a black future

We anticipate heavy snowfall tomorrow.

### hands-on

 adj. actively involved, practical; having hands involved in the doing or making of something

synonym: practical, involved, hands-in

(1) **hands-on** activity, (2) take a **hands-on** approach The **hands-on** workshop allowed attendees to work with tools and materials, developing their skills in a hands-on environment.

# **Session 2: Spelling**

- 1. fu\_\_\_s infection
- 2. st\_\_p off to the room
- 3. network se p
- 4. mo\_\_\_\_to bite
- 5. office se p
- 6. pr\_\_\_s improvement

- n. a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive
- v. to walk heavily and noisily, often with a rhythmical sound; to dance with a rhythmical step
- n. the arrangement or organization of something, often with a specific purpose or intention; a scheme or plan that is intended to deceive or trick someone
- a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria
- the arrangement or organization of something, often with a specific purpose or intention; a scheme or plan that is intended to deceive or trick someone
- n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 1. fungus, 2. stomp, 3. setup, 4. mosquito, 5. setup, 6. process

7.	opze a process	<i>v</i> .	to make the best or most effective use of something
8.	split a dinner t_b	n.	a small flap or strip of material attached to or projecting from something; the key on a typewriter or a word processor that causes a tabulation; a bill
9.	clinical micpy	n.	the scientific study of small structures or substances using microscopes, including the anatomical, physiological, and pathological aspects of cells, tissues, and organs
10.	decision-making prs	n.	a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
11.	manre an enzyme	v.	to make goods in large numbers, usually in a factory using machines
12.	a meI opinion	adj.	relating to the treatment of illness or injuries; relating to the practice of medicine
13.	a I_s with a wide angle	n.	a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation
AN	SWERS: 7. optimize, 8. tab, 9. microsco	DDV.	10. process, 11. manufacture, 12.

ANSWERS: 7. optimize, 8. tab, 9. microscopy, 10. process, 11. manufacture, 12 medical, 13. lens

14.	funal deafness	adj.	designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
15.	tyI leader	adj.	having the usual characteristics or traits of a specific group of things
16.	alnt in an organization	n.	an arrangement in which two or more elements are placed in a straight line or parallel to each other
17.	take a snot	n.	an informal photograph, especially one taken quickly
18.	field of funal medicine	adj.	designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
19.	asts of social, political, and economic life	n.	one part or feature of a situation, problem, subject, etc.
20.	a coordinate as	n.	a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance
21.	bombs fell at ram	adj.	made, done, or happening without method, conscious decision, or any regular pattern
22.	main good health	v.	to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
23.	die prevention	n.	a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

ANSWERS: 14. functional, 15. typical, 16. alignment, 17. snapshot, 18. functional, 19. aspect, 20. axis, 21. random, 22. maintain, 23. disease

24.	opI 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
25.	a rot appetite	adj.	sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity
26.	extend the TV ana	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.	dynamically scle	adj.	capable of being easily expanded or increased in size, number, or scale to meet changing demands
28.	sopted look	adj.	having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion
29.	D_n Giovanni	n.	a Spanish gentleman; a university lecturer, especially a senior member of a college at Oxford or Cambridge
30.	industry-spic regulations	adj.	clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
31.	vertical as	n.	a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance
32.	an inle asset	adj.	impossible or nearly impossible to see

ANSWERS: 24. optical, 25. robust, 26. antenna, 27. scalable, 28. sophisticated, 29. Don, 30. specific, 31. axis, 32. invisible

33. fairly ty\_\_\_\_I symptoms adj. having the usual characteristics or traits of a specific group of things 34. ma a mosquitoes a severe disease caused by a parasite n. that is spread by the bite of an infected mosquito 35. a pr\_\_\_\_on instrument the quality or condition of being exact n. and accurate a secluded religious community or 36. meditation as m n. retreat center where people practice yoga, meditation, and other spiritual disciplines under the guidance of a teacher or guru 37. as\_\_\_\_ly line a group of people who have been n. elected, especially one that meets regularly and makes decisions or laws for a specific region or country 38. em\_\_\_\_ed systems adj. fixed firmly into the surface of something 39. op\_\_\_ze control for cooling to make the best or most effective use ν. of something 40. an\_\_\_a of insect an electrical device that sends or n. receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects 41. pa\_\_\_t with weight loss a person who is receiving medical treatment, care, or attention from a

ANSWERS: 33. typical, 34. malaria, 35. precision, 36. ashram, 37. assembly, 38. embedded, 39. optimize, 40. antenna, 41. patient

healthcare professional, such as a doctor, nurse, or therapist; a personal

quality or characteristic

42. mor film	n.	an imaginary creature that is large and has various human and animal parts; someone or something large and powerful
43. an oxygen mk	v.	to conceal something; (noun) a covering that you wear over your face to hide it
44. symbiotic fus	n.	a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive
45. int biology	n.	any small creature that has six legs and a body divided into three sections
46. int table	n.	an object or design that is set into or inserted within another, typically as a decorative or contrasting element
47. rot growth	adj.	sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity
48. rl a ball	ν.	to move in a particular direction by turning over and over or from side to side
49. individual inson	n.	detailed direction, order, etc., on how to do or use something
50. the mesm for DNA replication	n.	a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

ANSWERS: 42. monster, 43. mask, 44. fungus, 45. insect, 46. inset, 47. robust, 48. roll, 49. instruction, 50. mechanism

51.	major pagm shift	n.	a standard or typical example of something; a pattern or model
52.	dielectric polion	n.	the division or separation of something into two opposing or contrasting groups or factions; the condition of being polarized or having poles
53.	eqp an army	ν.	to provide a person or a place with the things that are needed for a particular purpose or activity
54.	achic color	adj.	lacking or without color; having no hue or saturation; referring to shades of gray or black and white
55.	horde of mors	n.	an imaginary creature that is large and has various human and animal parts; someone or something large and powerful
56.	electron micpy	n.	the scientific study of small structures or substances using microscopes, including the anatomical, physiological, and pathological aspects of cells, tissues, and organs
57.	sce of a project	n.	the range of one's perceptions, thoughts, or actions, or a subject that
58.	electron micpe	n.	an instrument used to see objects or substances that are too small to be seen with the naked eye
59.	ener shortage	n.	a person whose job is designing, building, or maintaining something such as machines, structures, or software

ANSWERS: 51. paradigm, 52. polarization, 53. equip, 54. achromatic, 55. monster, 56. microscopy, 57. scope, 58. microscope, 59. engineer

60.	achic microscope	adj.	lacking or without color; having no hue or saturation; referring to shades of gray or black and white	
61.	fiber ops	n.	the academic study of vision and light	
62.	the watof coat	adj.	not permitting the passage of water	
63.	moto repellent	n.	a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria	
64.	engine conion	n.	the arrangement or pattern of something or a group of related things	
65.	for spelly American customers	adv.	only associated with or meant for one thing	
66.	the d_n of the university	n.	a Spanish gentleman; a university lecturer, especially a senior member of a college at Oxford or Cambridge	
67.	watof packing	adj.	not permitting the passage of water	
68.	z_m lens	<i>v</i> .	to move along very quickly; (noun) the act of rising upward into the air	
69.	intended prly for young people	adv.	mainly	
70.	gas fir	n.	any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light	
71.	temporary meI treatment	adj.	relating to the treatment of illness or injuries; relating to the practice of medicine	
ANSWERS: 60. achromatic, 61. optics, 62. waterproof, 63. mosquito, 64. configuration, 65. specifically, 66. Don, 67. waterproof, 68. zoom, 69. primarily, 70. filter, 71. medical				

72.	take a haon approach	adj.	actively involved, practical; having hands involved in the doing or making of something
73.	treat the inon with antibiotics	n.	a condition in which pathogenic microorganisms or viruses have entered the body
74.	int antenna	<i>n</i> .	any small creature that has six legs and a body divided into three sections
75.	ops technology	n.	the academic study of vision and light
76.	pre-mon agricultural society	adj.	of or belonging to the present time or recent times
77.	higher pixel dey	<i>n</i> .	the quality of compactness of a substance
78.	int map	n.	an object or design that is set into or inserted within another, typically as a decorative or contrasting element
79.	main order	v.	to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
80.	dise with CT scans	<i>v</i> .	to determine or distinguish the nature of a problem or an illness through a careful analysis
81.	defense mesm	n.	a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
82.	electronic dee	n.	a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

ANSWERS: 72. hands-on, 73. infection, 74. insect, 75. optics, 76. modern, 77. density, 78. inset, 79. maintain, 80. diagnose, 81. mechanism, 82. device

83.	aquatic cond	n.	an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
84.	prly affect adults	adv.	mainly
85.	pat in the hospital	n.	a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
86.	be in alnt	n.	an arrangement in which two or more elements are placed in a straight line or parallel to each other
87.	haon activity	adj.	actively involved, practical; having hands involved in the doing or making of something
88.	workplace thrut	n.	the amount of material or information that can be processed by a system or organization over a given period of time
89.	red wine stn	<i>v</i> .	to discolor, defile, or tarnish something; (noun) a discoloration or dirty mark on a surface that is difficult to remove
90.	mk body odor	<i>v</i> .	to conceal something; (noun) a covering that you wear over your face to hide it
91.	sue a blizzard	<i>v</i> .	to live or exist despite a dangerous event or period
92.	LED-emed glass	adj.	fixed firmly into the surface of something
93.	b_t him in the face	v.	to sing loudly and forcefully; to hit someone or something hard; (noun) a strip of leather or other material worn to tie or buckle something around the body

ANSWERS: 83. compound, 84. primarily, 85. patient, 86. alignment, 87. hands-on, 88. throughput, 89. stain, 90. mask, 91. survive, 92. embedded, 93. belt

94. a flle wire	adj.	able to change or be changed to suit new conditions or situations; able to
95. bm of light	n.	bend easily a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source
96. flunce microscopy	n.	the property of certain substances to absorb light at one wavelength and emit light at a longer wavelength, often producing a visible glow or color change; the visible light or color change resulting from this process
97. spic instructions	adj.	clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
98. a scientific diry	n.	the act or process of finding information, a place, or an object, or learning about something that was previously not known
99. mio force sensor	n.	extremely small in scale or scope; one millionth
100. stn the carpet	v.	to discolor, defile, or tarnish something; (noun) a discoloration or dirty mark on a surface that is difficult to remove
101. die control	n.	a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
102. stp on his foot	v.	to walk heavily and noisily, often with a rhythmical sound; to dance with a rhythmical step

ANSWERS: 94. flexible, 95. beam, 96. fluorescence, 97. specific, 98. discovery, 99. micro, 100. stain, 101. disease, 102. stomp

103. maa-endemic area	n.	a severe disease caused by a parasite that is spread by the bite of an infected mosquito
104. dep a skill	ν.	to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
105. conion of the system	n.	the arrangement or pattern of something or a group of related things
106. flle schedules	adj.	able to change or be changed to suit new conditions or situations; able to bend easily
107. the inon of new techniques	n.	the creation of a new device or process resulting from study and experimentation; the act of inventing
108. a digital plrm for enterprise	n.	the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed
109. enp her in a bear hug	v.	to surround and cover completely; to encase
110. nontechnical asts of the job	n.	one part or feature of a situation, problem, subject, etc.
111. his conclusion was obs	adj.	easy to see, discover or understand
112. an arrival plrm	n.	the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed

ANSWERS: 103. malaria, 104. develop, 105. configuration, 106. flexible, 107. invention, 108. platform, 109. envelop, 110. aspect, 111. obvious, 112. platform

113. t_y box	n.	a thing, typically a small model or replica of something that is played with, especially by children
114. antte your kind cooperation	v.	to expect or predict that something will happen; to tell in advance
115. live cloistered away in an asm	n.	a secluded religious community or retreat center where people practice yoga, meditation, and other spiritual disciplines under the guidance of a teacher or guru
116. enp the whole world	v.	to surround and cover completely; to encase
117. leather bt	<i>v</i> .	to sing loudly and forcefully; to hit someone or something hard; (noun) a strip of leather or other material worn to tie or buckle something around the body
118. the great diry of the century	n.	the act or process of finding information, a place, or an object, or learning about something that was previously not known
119. d_m memory	adj.	poorly lit; not bright
120. t_y store	n.	a thing, typically a small model or replica of something that is played with, especially by children
121. buy material	adj.	taking up much space or being difficult to move because of its size or weight; large and unwieldy
122. antte a black future	v.	to expect or predict that something will happen; to tell in advance

ANSWERS: 113. toy, 114. anticipate, 115. ashram, 116. envelop, 117. belt, 118. discovery, 119. dim, 120. toy, 121. bulky, 122. anticipate

123. starry illion	n.	light or source of light; the degree of visibility of your environment
124. tracking dee	n.	a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
125. indirect illion	n.	light or source of light; the degree of visibility of your environment
126. flunt material	adj.	emitting or reflecting vibrant and vivid light, especially under ultraviolet light; describing a type of lamp or bulb that produces such light
127. mio bubble	n.	extremely small in scale or scope; one millionth
128. eqp our children with some special skills	ν.	to provide a person or a place with the things that are needed for a particular purpose or activity
129. architectural pile	n.	the highest point or peak of something, particularly a mountain or a career; the greatest or highest level of achievement or success
130. a civil ener	n.	a person whose job is designing, building, or maintaining something such as machines, structures, or software
131. croion view	n.	a two-dimensional representation of a slice or portion of a three-dimensional object or structure, showing the internal arrangement and relationship of its parts; a sample or subset of a larger population or entity that allows insight into its characteristics or behavior

ANSWERS: 123. illumination, 124. device, 125. illumination, 126. fluorescent, 127. micro, 128. equip, 129. pinnacle, 130. engineer, 131. cross-section

132. buy packaging	adj.	taking up much space or being difficult to move because of its size or weight; large and unwieldy
133. clogged fir	n.	any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light
134. essly correct	adv.	relating to the essential features or concepts of anything
135. manre a product	ν.	to make goods in large numbers, usually in a factory using machines
136. micpe slide	n.	an instrument used to see objects or substances that are too small to be seen with the naked eye
137. a minute lirm	n.	a living organism, especially one that has a distinct shape, structure, or behavior
138. ade the technology	ν.	to go or move forward; to develop in a positive way
139. ori paper	n.	the Japanese art or practice of folding paper into decorative shapes and figures
140. sle a glance	ν.	to move or cause to move smoothly along a surface without interruption
141. croion diagram	n.	a two-dimensional representation of a slice or portion of a three-dimensional object or structure, showing the internal arrangement and relationship of its parts; a sample or subset of a larger population or entity that allows insight into its characteristics or behavior.

ANSWERS: 132. bulky, 133. filter, 134. essentially, 135. manufacture, 136. microscope, 137. life-form, 138. advance, 139. origami, 140. slide, 141. cross-section

142.	designed spe	lly for men	adv.	only associated with or meant for one thing
143.	a ram choice		adj.	made, done, or happening without method, conscious decision, or any regular pattern
144.	dise the problem	า	ν.	to determine or distinguish the nature of a problem or an illness through a careful analysis
145.	mon poetry		adj.	of or belonging to the present time or recent times
146.	flunce labelin	g	n.	the property of certain substances to absorb light at one wavelength and emit light at a longer wavelength, often producing a visible glow or color change; the visible light or color change resulting from this process
147.	a structural bm of	a building	n.	a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source
148.	sle a card across t	he table	<i>v</i> .	to move or cause to move smoothly along a surface without interruption
149.	network thrut		n.	the amount of material or information that can be processed by a system or organization over a given period of time
150.	common inon		n.	the creation of a new device or process resulting from study and experimentation; the act of inventing
151.	dep a strategy		ν.	to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 142. specifically, 143. random, 144. diagnose, 145. modern, 146. fluorescence, 147. beam, 148. slide, 149. throughput, 150. invention, 151. develop

152. min measurements	n.	a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
153. cultural pagm	n.	a standard or typical example of something; a pattern or model
154. a bacterial inon	n.	a condition in which pathogenic microorganisms or viruses have entered the body
155. min imaging	n.	a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
156. follow his insons	n.	detailed direction, order, etc., on how to do or use something
157. sue a plane crash	v.	to live or exist despite a dangerous event or period
158. fx diplomatic muscle	v.	to show off one's strength, power, or possessions; to bend or be capable of bending easily
159. zm in on a photo	v.	to move along very quickly; (noun) the act of rising upward into the air
160. harmful cond	n.	an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
161. lirm discovery	n.	a living organism, especially one that has a distinct shape, structure, or behavior

ANSWERS: 152. micron, 153. paradigm, 154. infection, 155. micron, 156. instruction, 157. survive, 158. flex, 159. zoom, 160. compound, 161. life-form

162. fx a finger	v.	to show off one's strength, power, or possessions; to bend or be capable of bending easily
163. asly hall	n.	a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country
164. have broad sce	n.	the range of one's perceptions, thoughts, or actions, or a subject that
165. polion effect	n.	the division or separation of something into two opposing or contrasting groups or factions; the condition of being polarized or having poles
166. reached the pile	n.	the highest point or peak of something, particularly a mountain or a career; the greatest or highest level of achievement or success
167. become essly same	adv.	relating to the essential features or concepts of anything
168. ade a cooperative relationship	v.	to go or move forward; to develop in a positive way
169. open a t_b	n.	a small flap or strip of material attached to or projecting from something; the key on a typewriter or a word processor that causes a tabulation; a bill
170. new opI 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

ANSWERS: 162. flex, 163. assembly, 164. scope, 165. polarization, 166. pinnacle, 167. essentially, 168. advance, 169. tab, 170. optical

171. rI down his cheeks	v.	to move in a particular direction by turning over and over or from side to side
172. spare conts for cars	n.	one of several parts that combines with others to form something bigger
173. developed snot	n.	an informal photograph, especially one taken quickly
174. a convex Is	n.	a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation
175. d_m and distant past	adj.	poorly lit; not bright
176. population dey	n.	the quality of compactness of a substance
177. flunt bulb	adj.	emitting or reflecting vibrant and vivid light, especially under ultraviolet light; describing a type of lamp or bulb that produces such light
178. obs reasons	adj.	easy to see, discover or understand
179. a sopted lifestyle	adj.	having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion
180. key cont	n.	one of several parts that combines with others to form something bigger
181. scle solution	adj.	capable of being easily expanded or increased in size, number, or scale to meet changing demands

ANSWERS: 171. roll, 172. component, 173. snapshot, 174. lens, 175. dim, 176. density, 177. fluorescent, 178. obvious, 179. sophisticated, 180. component, 181. scalable

182. ori art	
183. inle stars	
184. speak with pron	

- the Japanese art or practice of folding paper into decorative shapes and figures
- adj. impossible or nearly impossible to see
- *n.* the quality or condition of being exact and accurate

ANSWERS: 182. origami, 183. invisible, 184. precision

## **Session 3: Fill in the Blanks**

1.	The researchers try to discover a common in all types of successful organizations.
n.	one of several parts that combines with others to form something bigger
2. n.	I always carry a backup in case my phone runs out of battery.  a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
	The chip in my credit card allows me to make contactless payments fixed firmly into the surface of something
4.	The data center's is impressive, allowing for quick processing of large amounts of data.
n.	the amount of material or information that can be processed by a system or organization over a given period of time
5.	Necessity is the mother of
n.	the creation of a new device or process resulting from study and experimentation; the act of inventing
6.	He was exhausted and into bed as soon as he got home.
v.	to move in a particular direction by turning over and over or from side to side
7.	The light made it difficult to read the book.
adj	poorly lit; not bright
8.	The doctor carefully examined the medical history.
n.	a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
	SWERS: 1. component, 2. device, 3. embedded, 4. throughput, 5. invention, 6. ed, 7. dim, 8. patient's

ANSWERS: 9. ashram, 10. alignment, 11. manufactured, 12. scalable, 13. beam, 14. instruction, 15. fluorescence

ANSWERS: 16. stained, 17. insects, 18. antenna, 19. belting, 20. engineer, 21. flex, 22. optimize, 23. monster

ANSWERS: 24. mask, 25. compound, 26. mosquitos, 27. setup, 28. robust, 29. malaria, 30. waterproof, 31. random

ANSWERS: 32. microscope, 33. zoomed, 34. scope, 35. functional, 36. optical, 37. snapshots, 38. inset, 39. fungus

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ANSWERS: 40. hands-on, 41. filter, 42. discovery, 43. assembly, 44. precision, 45.

aspects, 46. obvious, 47. mechanisms

ANSWERS: 48. invisible, 49. optics, 50. develop, 51. survive, 52. medical, 53. origami, 54. microscopy, 55. advance

ANSWERS: 56. typical, 57. configuration, 58. disease, 59. lens, 60. sophisticated, 61.

process, 62. illumination

63. He could never go against what Carlos said.
<ul> <li>a Spanish gentleman; a university lecturer, especially a senior member of a college at Oxford or Cambridge</li> </ul>
64. The scientist conducted a study that provided details about the species' behavior.
adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
65. The of the tree trunk showed its growth rings.
n. a two-dimensional representation of a slice or portion of a three-dimensional object or structure, showing the internal arrangement and relationship of its parts; a sample or subset of a larger population or entity that allows insight into its characteristics or behavior
66. The fog the city, making it difficult to see.
v. to surround and cover completely; to encase
67. This approach employs both and macro analysis methods.  n. extremely small in scale or scope; one millionth
68. The furniture made it difficult to move around the small room.
adj. taking up much space or being difficult to move because of its size or weight; large and unwieldy
69. Their headquarters are in a skyscraper.
adj. of or belonging to the present time or recent times
70. We heavy snowfall tomorrow.
v. to expect or predict that something will happen; to tell in advance
ANSWERS: 63. Don, 64. specific, 65. cross-section, 66. enveloped, 67. micro, 68. bulky, 69. modern, 70. anticipate

ANSWERS: 71. maintain, 72. achromatic, 73. platform, 74. primarily, 75. tab, 76. density, 77. infections, 78. toy

79. S	Scientists are searching for signs of on other planets.
n.	a living organism, especially one that has a distinct shape, structure, or behavior
80. T	This ad campaign is aimed at young women.
adv.	only associated with or meant for one thing
81. 7	The earth's of rotation is tilted 66.5 degrees to the ecliptic plane.
n.	a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance
82. I	f necessary, you can the front seats forward.
ν.	to move or cause to move smoothly along a surface without interruption
83	a society is an organism.
adv.	relating to the essential features or concepts of anything
84. 1	Γhe width of a single human hair is around 100
n.	a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
85. F	He postulated a completely different to explain all these phenomena.
n.	a standard or typical example of something; a pattern or model
86. Y	You can be more and creative in your approach.
	able to change or be changed to suit new conditions or situations; able to bendeasily
87. 1	The children their feet in time to the music.
v.	to walk heavily and noisily, often with a rhythmical sound; to dance with a rhythmical step
	WERS: 79. life-form, 80. specifically, 81. axis, 82. slide, 83. Essentially, 84. ons, 85. paradigm, 86. flexible, 87. stomped

ANSWERS: 88. diagnose, 89. pinnacle, 90. equipped, 91. polarization, 92. fluorescent