# **Englist.me**

## Vocabulary Builder Reference from...

Neri Oxman: Design at the intersection of technology and biology | TED Talk

https://www.ted.com/talks/neri\_oxman\_design\_at\_the \_intersection\_of\_technology\_and\_biology



## **Advanced Words Only**

#### **IMPORTANT**

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## **Session 1: Word List**

#### chisel

 a tool with a sharpened edge at one end used for shaping wood, stone, or metal; (verb) to engage in deceitful behavior

synonym: gouge, bevel, plane

(1) sharpen **chisel**, (2) **chisel** some money

The archaeologist used a small **chisel** to excavate the ancient artifact.

## rigor

- *n.* strictness or severity in opinion, temper, or judgment *synonym*: strictness, exactness, accuracy
- (1) the **rigor** of the law, (2) academic **rigor**When the dead body was found, **rigor** mortis had already begun.

#### dictate

- v. to state or give order with total authority; to say or read aloud for somebody else to write down or to be recorded synonym: read out, prescribe, order
- (1) **dictate** a letter to secretary, (2) **dictate** to the associate The allies **dictated** the terms of surrender to the country.

## elasticity

 n. the ability of a material to return to its original shape after being stretched or compressed; flexibility; adaptability to change synonym: flexibility, pliability, suppleness

(1) elasticity coefficient, (2) skin elasticity

The **elasticity** of the rubber band allowed it to stretch without breaking.

#### worldview

 a particular philosophy or cognitive orientation of life or conception of the world

*synonym*: perspective, position, viewpoint

(1) mainstream **worldview**, (2) the **worldview** of the ancient civilization

The war between the two countries was also a battle between competing **worldviews**.

#### confluence

 the point at which two or more streams or rivers come together; a gathering of people or things at a particular location or moment

synonym: merging, convergence, meeting

(1) arterial confluence, (2) confluence of ideas

A **confluence** of two smaller streams formed the river.

## carving

- n. the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or designsynonym: sculpture, engraving, sculpture
- (1) a wood carving, (2) carving instrument

The intricate **carving** on the wooden box was the work of a master craftsman.

#### robotic

adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

synonym: automated, mechanical, laborsaving

(1) robotic arm, (2) robotic guide operation

The surgeon removed the tumor using **robotic** video assistance.

#### nanoscale

adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

(1) **nanoscale** device, (2) things at the **nanoscale**This process improves the strength of the metal by controlling the **nanoscale** lattice structure of the metal.

## microorganism

 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.

## reimagine

v. to imagine or conceive of something in a new or different way

*synonym*: re-conceptualize, re-envision, re-create

(1) **reimagine** the future, (2) **reimagine** the possibilities The company is trying to **reimagine** its business model to stay competitive.

## archetype

 a very typical example of a certain person or thing; a recurrent symbol or motif in literature, art, or mythology that represents a universal pattern of human nature

synonym: prototype, model, paradigm

(1) **archetype** symbol, (2) feminine **archetype**The hero's journey is a common **archetype** in many myths and stories.

#### **Arabic**

- n. the Semitic language of the Arab people, widely spoken throughout the Middle East and North Africa; of or relating to Arab peoples, culture, or language
- (1) Arabic cuisine, (2) Arabic languageI'm studying Arabic calligraphy as part of my art class.

iris

 n. the colored part of the eye that surrounds the pupil; a flower with showy petals, named for its resemblance to the eye's iris

synonym: pupil, diaphragm, aperture

(1) blue iris, (2) iris pattern

The **iris** of the eye contracts and expands to control the amount of light that enters.

seam

 a line of stitching or joining where two pieces of fabric or material are united; also, a narrow furrow or fissure in rock or soil

synonym: stitch, seam, joint

(1) uneven **seam**, (2) the **seam** on the shoulder

She took the dress to the tailor to fix the torn **seam**.

rigidity

n. the state or quality of being rigid or inflexible; the inability to adapt to change or new circumstances; the condition of being stiff or unyielding

synonym: stiffness, inflexibility, firmness

(1) mental rigidity, (2) legal rigidity

The **rigidity** of the school's dress code policy caused much controversy among the students and parents.

opacity

 the quality or state of being opaque (= not allowing light to pass through); a lack of transparency or clarity in a person's behavior, motives, or communication

synonym: translucency, cloudiness, opaqueness

(1) light opacity, (2) opacity level

The **opacity** of the company's financial statements raised suspicions of fraud.

**Jewish** 

adj. of or relating to people whose traditional religion is Judaism

synonym: Judaic

(1) **Jewish** history, (2) **Jewish** culture

My friend is a **Jewish** woman who celebrates Hanukkah every year.

recount

to describe what happened or to narrate a story

(1) recount the adventure, (2) recount a conversation with

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*synonym*: narrate, tell, report

him

They **recount** events that have already occurred.

#### chitin

 a tough, protective polysaccharide compound that forms the exoskeleton of arthropods and the cell walls of some fungi

synonym: exoskeleton material, insect shell

(1) chitin structure, (2) chitin synthesis

The lobster's **chitin-based** shell turns red when cooked due to heat-induced chemical changes.

## scorpion

 a small creature similar to an insect with a segmented body, a pair of pincers, and a long, thin tail that ends in a venomous sting

synonym: arachnid, stinger

(1) **scorpion** fish, (2) poisonous **scorpion** 

The **scorpion's** venom can be lethal to humans.

## grind

v. to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time

synonym: mill, crush, grate

(1) **grind** away at my work, (2) **grind** your teeth She had to **grind** the coffee beans before making a fresh cup.

### chitosan

a derivative of chitin (= a tough, protective polysaccharide compound), obtained by removing the acetyl groups from chitin, often used in various applications such as medicine, agriculture, and industry

synonym: biopolymer, dietary fiber, wound-healing agent

(1) **chitosan** supplement, (2) **chitosan** extraction The **chitosan** nanoparticles are used for targeted drug delivery in cancer treatments.

#### opaque

adj. not transparent; not allowing light to pass through; not permitting a clear view

synonym: impenetrable, obscure, cloudy

(1) **opaque** material, (2) **opaque** color

The curtains were made of **opaque** fabric that blocked out all light.

#### extrude

 to force, push, or press out through a narrow opening or nozzle, often in a continuous fashion; to shape materials by squeezing them through a die or mold

synonym: squeeze, force, press out

(1) extrude rubber, (2) extrude metal

The artist used a pasta machine to **extrude** clay into intricate shapes.

#### nozzle

 a tube or spout through which a liquid or gas is discharged, particularly one attached to a hose, pump, or spray gun

synonym: spout, sprayer, tube

(1) **nozzle** attachment, (2) fuel **nozzle** 

The car wash **nozzle** sprayed a powerful stream of soapy water onto the vehicle.

## recyclability

n. the degree to which a material or product can be reused or repurposed after it has served its original function, without requiring significant modifications or environmental harm

synonym: reusability, sustainability, renewability

(1) **recyclability** rate, (2) low **recyclability** problem The **recyclability** of electronic devices is a significant challenge due to the complexity of their components.

**byproduct** 

 a secondary or incidental product produced in the manufacture or synthesis of something else

synonym: side effect, spinoff, outgrowth

(1) toxic **byproducts**, (2) **byproduct** of technology

The **byproduct** of the energy production process is a large amount of carbon dioxide emissions.

## photosynthesis

- n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
- (1) oxygenic **photosynthesis**, (2) process of **photosynthesis**

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

## biodegrade

- v. to decay naturally by microorganisms, such as bacteria and fungi
- (1) **biodegrade** by the microorganism, (2) bioplastic designed to **biodegrade**

The company's plastic products are easily **biodegraded** thanks to a unique manufacturing process.

## nourish

v. to provide a person, an animal, or plant with food to make them grow and stay healthy

synonym: feed, sustain, nurture

(1) nourish damaged skin, (2) nourish hopeThe mother used her breast milk to nourish the baby.

## interplanetary

adj. relating to or occurring between planets, particularly regarding space travel or communication

synonym: interstellar, planetary, celestial

(1) **interplanetary** debris, (2) **interplanetary** exploration Scientists are working on developing **interplanetary** travel to explore other planets in our solar system.

## augment

v. to increase the size, extent, quantity, etc. of something by adding something to it

synonym: boost, increase, expand

(1) **augment** the reality, (2) **augment** immunity Economic factors and monetary policy **augmented** inflation.

## alchemy

n. a medieval chemical philosophy and speculative theory that aimed to transform base metals into gold or produce

a universal elixir that could cure all diseases and grant immortality; a process of transformation or creation that appears magical or mysterious

*synonym*: sorcery, magic, transmutation

(1) **alchemy** experiment, (2) **alchemy** of emotions Today, the study of **alchemy** remains an important part of the history of science and philosophy

#### transmute

- v. to change or convert from one form or substance to another, often in a transformative or profound waysynonym: transform, convert, change
- (1) **transmute** energy, (2) **transmute** struggle into growth Some alchemists believed in the ability to **transmute** base metals into gold.

## synthesize

v. to combine a substance to make a more complex product or compound

synonym: incorporate, amalgamate

(1) **synthesize** molecules, (2) **synthesize** information The spider can **synthesize** multiple different silk proteins.

## cyanobacteria

 a group of photosynthetic bacteria that possess chlorophyll and blue pigments and are characteristically found in aquatic environments; also known as blue-green algae

synonym: blue-green algae, blue-green bacteria, pond scum

(1) **cyanobacteria** blooms, (2) marine **cyanobacteria** The toxic algae bloom in the lake was caused by an overgrowth of **cyanobacteria**.

coli

- a bacterium of the genus Escherichia that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry
- (1) E. **coli** bacteria strain, (2) **coli** cells

  The study of Escherichia **coli** has led to important advancements in areas such as antibiotic resistance, gut

microbiome, and synthetic biology.

#### inhabit

- v. to live in a specific location; to reside
- synonym: settle, occupy, populate
- (1) inhabit a cave, (2) inhabit the stomach

I have no idea what sort of folks **inhabit** the neighborhood.

### biofuel

 a fuel produced from organic matter, such as crops or waste material, that can be used to replace or supplement traditional fossil fuels

synonym: renewable energy, green fuel, alternative fuel

(1) **biofuel** production, (2) **biofuel** technology

The airplane was powered by a **biofuel** made from plant-based materials.

## digestive

- adj. relating to or capable of causing or promoting digestion of food
- (1) **digestive** juices, (2) a **digestive** enzyme A nutritious diet improves **digestive** functions.

### intestine

 a long, tube-like organ in the digestive system that is responsible for absorbing nutrients from food and eliminating waste products

synonym: gut, bowel, tract

(1) large intestine, (2) intestine wall

The small **intestine** is responsible for absorbing most of the nutrients from food.

#### unveil

v. to reveal or make something publicly known, especially for the first time

synonym: reveal, uncover, expose

(1) **unveil** a monument, (2) **unveil** a comprehensive plan The company plans to **unveil** its new product at the trade show next week.

#### glowing

adj. highly enthusiastic; greatly praised

*synonym*: burning, bright, flaming

# (1) **glowing** reviews, (2) **glowing** cheeks The western sky was **glowing** pink.

#### microbiome

 the community of microorganisms (= living things too small to be seen) that can usually be found living together in any given environment or the human body

synonym: flora

(1) skin **microbiome**, (2) have a diverse **microbiome**The gut **microbiome** is a major producer of serotonin, which is necessary for human mental stability.

## opportune

adj. suitable or happening at a time that is suitable or convenient for a particular purpose

synonym: suitable, timely, practical

(1) **opportune** occasion, (2) an **opportune** remark The phone rang at the most **opportune** time.

## speculate

v. to form a theory or conjecture or guess about a subject without solid evidence

synonym: assume, conjecture, infer

(1) **speculate** about the reason, (2) **speculate** on the outcome

He **speculated** that this investment would lead to success.

## symbiosis

 a close, prolonged association between two or more different species of organisms, typically to the advantage of all

synonym: cooperation, interdependence, mutualism

(1) industrial **symbiosis**, (2) **symbiosis** establishment The **symbiosis** between the coral and the algae is an important example of mutualism.

## sophistication

 the quality or state of having a great deal of worldly experience; the quality or state of being intellectually or culturally refined

synonym: refinement, culture, elegance

(1) cultural sophistication, (2) linguistic sophistication

The new technology added a level of **sophistication** to the manufacturing process.

#### silkworm

n. the larva of a moth of the Bombyx genus that spins a cocoon of silk to encase itself while it transforms into a pupa; the silk fibers can be harvested and used to make fabric, such as silk

synonym: silk spinner

(1) silkworm larvae, (2) silkworm breeding

The **silkworm's** cocoon contains the silk fibers used to make luxurious fabrics.

#### cocoon

a protective covering spun by some insects and other invertebrates

synonym: chrysalis, pupa, case

(1) cocoon silk, (2) a dried cocoon

The caterpillar spins a **cocoon** around itself before turning into a butterfly.

## metamorphosis

 a profound or dramatic change in form, structure, or condition; a transformation; the process by which an animal or insect undergoes a physical transformation, such as growth, development, or maturation

synonym: transformation, change, evolution

(1) **metamorphosis** process, (2) undergo a **metamorphosis** 

The butterfly's **metamorphosis** from a caterpillar to a winged creature is a wonder of nature.

#### attache

 a person who works at an embassy, usually having a specialized area of responsibility; a shallow and rectangular briefcase

synonym: diplomat, envoy, briefcase

(1) a commercial **attache**, (2) black **attache** case A prime minister talked with a military **attache** of the country's embassy.

#### tensile

 adj. relating to the ability of a material or structure to stretch or bend without breaking or losing its shape; having great strength or flexibility under tension

synonym: flexible, pliable, ductile

(1) **tensile** deformation, (2) **tensile** properties

The engineer tested the **tensile** strength of the metal to determine its durability.

## compress

 to press or squeeze together to make something take up less space

synonym: condense, constrict, squeeze

(1) **compress** the chest, (2) **compress** gas

She **compressed** the files into a single ZIP archive to save space on her computer.

#### visualize

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

synonym: imagine, picture, envision

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

#### scaffold

 a temporary platform or structure used to support workers and materials during construction or maintenance work

*synonym*: platform, staging, framework

(1) scaffold construction, (2) go to the scaffold

The construction workers set up the **scaffold** to reach the top of the building.

#### unravel

- v. undo twisted, knitted, or woven threads by separating itsynonym: separate, unknot, ravel
- (1) unravel a knit, (2) unravel a plot

Detectives are still attempting to **unravel** the mystery of his death.

#### 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.

rev

a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

synonym: revolution, RPM, speed

(1) low- rev engine, (2) rev up the crowd

He stepped on the gas pedal, and the engine released a loud **rev**.

## caterpillar

- n. the wormlike larva of a butterfly or moth synonym: larva, grub, worm
- (1) **caterpillar** of a butterfly, (2) **caterpillar** in a cocoon The wooly bear **caterpillar** munched on leaves all day.

pupa

n. the intermediate stage in the development of an insect between the larva and the adult

synonym: chrysalis, cocoon, pupae

(1) **pupa** stage, (2) emerge from a **pupa** 

The **pupa** of the moth was hidden deep inside the cocoon.

## pavilion

 a large, often ornate tent or booth, often used for entertainment or public events; a building or structure, often in a park or other public space, used for meetings, exhibitions, or social gatherings

synonym: gazebo, kiosk, pagoda

(1) garden pavilion, (2) beach pavilion

The outdoor wedding reception was held in a beautiful **pavilion** overlooking the lake.

moth

 an insect with wings similar to a butterfly that travels at night and is attracted to light (1) **moth** larva, (2) **moth** attracted to the light The **moth** is a serious threat to the farm's output.

hatch

v. to cause an egg to break to allow a young animal to come out; to produce and expand something that is in an early stage

synonym: incubate, breed, produce

(1) hatch a plan, (2) hatch a baby chick

The eggs began to **hatch**, and the small chicks emerged.

# **Session 2: Spelling**

1. sc\_\_\_ld construction

2. gl\_\_\_g cheeks

3. co ss gas

4. syn\_\_\_\_ze information

5. an op\_\_\_\_ne remark

6. fuel no\_\_\_e

7. ch an extraction

8. un\_\_\_l a comprehensive plan

9. process of pho\_\_\_\_sis

 a temporary platform or structure used to support workers and materials during construction or maintenance work

adj. highly enthusiastic; greatly praised

v. to press or squeeze together to make something take up less space

v. to combine a substance to make a more complex product or compound

adj. suitable or happening at a time that is suitable or convenient for a particular purpose

 a tube or spout through which a liquid or gas is discharged, particularly one attached to a hose, pump, or spray gun

n. a derivative of chitin (= a tough, protective polysaccharide compound), obtained by removing the acetyl groups from chitin, often used in various applications such as medicine, agriculture, and industry

v. to reveal or make something publicly known, especially for the first time

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

ANSWERS: 1. scaffold, 2. glowing, 3. compress, 4. synthesize, 5. opportune, 6. nozzle, 7. chitosan, 8. unveil, 9. photosynthesis

10.	intary exploration	adj.	relating to or occurring between planets, particularly regarding space travel or communication
11.	poisonous scon	n.	a small creature similar to an insect with a segmented body, a pair of pincers, and a long, thin tail that ends in a venomous sting
12.	ope color	adj.	not transparent; not allowing light to pass through; not permitting a clear view
13.	unl a plot	<i>v</i> .	undo twisted, knitted, or woven threads by separating it
14.	nale device	adj.	on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
15.	mainstream woew	n.	a particular philosophy or cognitive orientation of life or conception of the world
16.	the woew of the ancient civilization	n.	a particular philosophy or cognitive orientation of life or conception of the world
17.	p_a stage	n.	the intermediate stage in the development of an insect between the larva and the adult
18.	a wood cag	n.	the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design
19.	sirm breeding	n.	the larva of a moth of the Bombyx genus that spins a cocoon of silk to encase itself while it transforms into a pupa; the silk fibers can be harvested and used to make fabric, such as silk

ANSWERS: 10. interplanetary, 11. scorpion, 12. opaque, 13. unravel, 14. nanoscale, 15. worldview, 16. worldview, 17. pupa, 18. carving, 19. silkworm

ANSWERS: 20. archetype, 21. rev, 22. biofuel, 23. intestine, 24. confluence, 25. silkworm, 26. Jewish, 27. digestive

28.	light opy	n.	the quality or state of being opaque (= not allowing light to pass through); a lack of transparency or clarity in a person's behavior, motives, or communication
29.	undergo a metsis	n.	a profound or dramatic change in form, structure, or condition; a transformation; the process by which an animal or insect undergoes a physical transformation, such as growth, development, or maturation
30.	aly of emotions	n.	a medieval chemical philosophy and speculative theory that aimed to transform base metals into gold or produce a universal elixir that could cure all diseases and grant immortality; a process of transformation or creation that appears magical or mysterious
31.	biI production	n.	a fuel produced from organic matter, such as crops or waste material, that can be used to replace or supplement traditional fossil fuels
32.	grd your teeth	v.	to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time
33.	Arc language	n.	the Semitic language of the Arab people, widely spoken throughout the Middle East and North Africa; of or relating to Arab peoples, culture, or language

ANSWERS: 28. opacity, 29. metamorphosis, 30. alchemy, 31. biofuel, 32. grind, 33. Arabic

34.	ret the adventure	<i>v</i> .	to describe what happened or to narrate a story
35.	aut the reality	v.	to increase the size, extent, quantity, etc. of something by adding something to it
36.	chan supplement	n.	a derivative of chitin (= a tough, protective polysaccharide compound), obtained by removing the acetyl groups from chitin, often used in various applications such as medicine, agriculture, and industry
37.	Jeh history	adj.	of or relating to people whose traditional religion is Judaism
38.	a commercial ate	n.	a person who works at an embassy, usually having a specialized area of responsibility; a shallow and rectangular briefcase
39.	emerge from a pa	n.	the intermediate stage in the development of an insect between the larva and the adult
40.	spte on the outcome	<i>v</i> .	to form a theory or conjecture or guess about a subject without solid evidence
41.	noh hope	<i>v</i> .	to provide a person, an animal, or plant with food to make them grow and stay healthy
42.	skin micme	n.	the community of microorganisms (= living things too small to be seen) that can usually be found living together in any given environment or the human body

ANSWERS: 34. recount, 35. augment, 36. chitosan, 37. Jewish, 38. attache, 39. pupa, 40. speculate, 41. nourish, 42. microbiome

43.	noe attachment	n.	a tube or spout through which a liquid or gas is discharged, particularly one attached to a hose, pump, or spray gun
44.	trte energy	v.	to change or convert from one form or substance to another, often in a transformative or profound way
45.	catar of a butterfly	n.	the wormlike larva of a butterfly or moth
46.	unl a monument	v.	to reveal or make something publicly known, especially for the first time
47.	bioplastic designed to biode	<i>v</i> .	to decay naturally by microorganisms, such as bacteria and fungi
48.	chn structure	n.	a tough, protective polysaccharide compound that forms the exoskeleton of arthropods and the cell walls of some fungi
49.	trte struggle into growth	ν.	to change or convert from one form or substance to another, often in a transformative or profound way
50.	ope material	adj.	not transparent; not allowing light to pass through; not permitting a clear view
51.	go to the scld	n.	a temporary platform or structure used to support workers and materials during construction or maintenance work
52.	opy level	n.	the quality or state of being opaque (= not allowing light to pass through); a lack of transparency or clarity in a person's behavior, motives, or communication

ANSWERS: 43. nozzle, 44. transmute, 45. caterpillar, 46. unveil, 47. biodegrade, 48. chitin, 49. transmute, 50. opaque, 51. scaffold, 52. opacity

53.	die a letter to secretary	ν.	to state or give order with total authority; to say or read aloud for somebody else to write down or to be recorded
54.	recity rate	n.	the degree to which a material or product can be reused or repurposed after it has served its original function, without requiring significant modifications or environmental harm
55.	roc arm	adj.	of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
56.	byct of technology	n.	a secondary or incidental product produced in the manufacture or synthesis of something else
57.	sharpen chI	n.	a tool with a sharpened edge at one end used for shaping wood, stone, or metal; (verb) to engage in deceitful behavior
58.	glg reviews	adj.	highly enthusiastic; greatly praised
59.	exe metal	ν.	to force, push, or press out through a narrow opening or nozzle, often in a continuous fashion; to shape materials by squeezing them through a die or mold
60.	uneven sm	n.	a line of stitching or joining where two pieces of fabric or material are united; also, a narrow furrow or fissure in rock or soil

ANSWERS: 53. dictate, 54. recyclability, 55. robotic, 56. byproduct, 57. chisel, 58. glowing, 59. extrude, 60. seam

61.	indus student	adj.	hardworking, diligent, and persistent in effort
62.	ci cells	n.	a bacterium of the genus Escherichia that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry
63.	tee deformation	adj.	relating to the ability of a material or structure to stretch or bend without breaking or losing its shape; having great strength or flexibility under tension
64.	things at the nale	adj.	on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
65.	cultural sopion	n.	the quality or state of having a great deal of worldly experience; the quality or state of being intellectually or culturally refined
66.	industrial syis	n.	a close, prolonged association between two or more different species of organisms, typically to the advantage of all
67.	the rir of the law	n.	strictness or severity in opinion, temper, or judgment
68.	large inne	n.	a long, tube-like organ in the digestive system that is responsible for absorbing nutrients from food and eliminating waste products
69.	beach paon	n.	a large, often ornate tent or booth, often used for entertainment or public events; a building or structure, often in a park or other public space, used for meetings, exhibitions, or social gatherings

ANSWERS: 61. industrious, 62. coli, 63. tensile, 64. nanoscale, 65. sophistication, 66. symbiosis, 67. rigor, 68. intestine, 69. pavilion

ANSWERS: 70. confluence, 71. chisel, 72. archetype, 73. iris, 74. speculate, 75. moth, 76. rigidity, 77. interplanetary, 78. reimagine

79.	syis establishment	n.	a close, prolonged association between two or more different species of organisms, typically to the advantage of all
80.	hah a baby chick	<i>v</i> .	to cause an egg to break to allow a young animal to come out; to produce and expand something that is in an early stage
81.	aut immunity	<i>v</i> .	to increase the size, extent, quantity, etc. of something by adding something to it
82.	pathogenic micism	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
83.	coss the chest	<i>v</i> .	to press or squeeze together to make something take up less space
84.	cyaria blooms	n.	a group of photosynthetic bacteria that possess chlorophyll and blue pigments and are characteristically found in aquatic environments; also known as blue-green algae
85.	cag instrument	n.	the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design
86.	skin elaty	n.	the ability of a material to return to its original shape after being stretched or compressed; flexibility; adaptability to change
87.	opne occasion	adj.	suitable or happening at a time that is suitable or convenient for a particular purpose

ANSWERS: 79. symbiosis, 80. hatch, 81. augment, 82. microorganism, 83. compress, 84. cyanobacteria, 85. carving, 86. elasticity, 87. opportune

88.	vize flying through space	<i>V</i> .	to form a mental image or concept of something; to make something visible
89.	synze molecules	<i>v</i> .	to combine a substance to make a more complex product or compound
90.	low-r_v engine	n.	a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
91.	vize data	v.	to form a mental image or concept of something; to make something visible
92.	toxic bycts	n.	a secondary or incidental product produced in the manufacture or synthesis of something else
93.	a dried con	n.	a protective covering spun by some insects and other invertebrates
94.	int a cave	ν.	to live in a specific location; to reside
95.	noh damaged skin	<i>v</i> .	to provide a person, an animal, or plant with food to make them grow and stay healthy
96.	linguistic sopion	n.	the quality or state of having a great deal of worldly experience; the quality or state of being intellectually or culturally refined
97.	chn synthesis	n.	a tough, protective polysaccharide compound that forms the exoskeleton of arthropods and the cell walls of some fungi
98.	oxygenic phosis	n.	the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.

ANSWERS: 88. visualize, 89. synthesize, 90. rev, 91. visualize, 92. byproduct, 93. cocoon, 94. inhabit, 95. nourish, 96. sophistication, 97. chitin, 98. photosynthesis

99. indus worker	adj.	hardworking, diligent, and persistent in effort
100. int the stomach	<i>v</i> .	to live in a specific location; to reside
101. exe rubber	v.	to force, push, or press out through a narrow opening or nozzle, often in a continuous fashion; to shape materials by squeezing them through a die or mold
102. biode by the microorganism	v.	to decay naturally by microorganisms, such as bacteria and fungi
103. dive juices	adj.	relating to or capable of causing or promoting digestion of food
104. elaty coefficient	n.	the ability of a material to return to its original shape after being stretched or compressed; flexibility; adaptability to change
105. marine cyaria	n.	a group of photosynthetic bacteria that possess chlorophyll and blue pigments and are characteristically found in aquatic environments; also known as blue-green algae
106. hah a plan	v.	to cause an egg to break to allow a young animal to come out; to produce and expand something that is in an early stage
107. academic rir	n.	strictness or severity in opinion, temper or judgment
108. garden paon	n.	a large, often ornate tent or booth, often used for entertainment or public events a building or structure, often in a park of other public space, used for meetings, exhibitions, or social gatherings

ANSWERS: 99. industrious, 100. inhabit, 101. extrude, 102. biodegrade, 103. digestive, 104. elasticity, 105. cyanobacteria, 106. hatch, 107. rigor, 108. pavilion

109. catar in a cocoon	n.	the wormlike larva of a butterfly or moth
110. E. ci bacteria strain	n.	a bacterium of the genus Escherichia that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry
111. aly experiment	n.	a medieval chemical philosophy and speculative theory that aimed to transform base metals into gold or produce a universal elixir that could cure all diseases and grant immortality; a process of transformation or creation that appears magical or mysterious
112. metsis process	n.	a profound or dramatic change in form, structure, or condition; a transformation the process by which an animal or insect undergoes a physical transformation, such as growth, development, or maturation
113. ret a conversation with him	<i>v</i> .	to describe what happened or to narrate a story
114. tee properties	adj.	relating to the ability of a material or structure to stretch or bend without breaking or losing its shape; having great strength or flexibility under tension
115. mh larva	n.	an insect with wings similar to a butterfly that travels at night and is attracted to light
116. legal rity	n.	the state or quality of being rigid or inflexible; the inability to adapt to change or new circumstances; the condition of being stiff or unyielding

ANSWERS: 109. caterpillar, 110. coli, 111. alchemy, 112. metamorphosis, 113. recount, 114. tensile, 115. moth, 116. rigidity

117. have a diverse micme	n.	the community of microorganisms (= living things too small to be seen) that can usually be found living together in any given environment or the human body
118. micisms 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
119. scon fish	n.	a small creature similar to an insect with a segmented body, a pair of pincers, and a long, thin tail that ends in a venomous sting
120. rene the possibilities	v.	to imagine or conceive of something in a new or different way
121. the sm on the shoulder	n.	a line of stitching or joining where two pieces of fabric or material are united; also, a narrow furrow or fissure in rock or soil
122. blue is	n.	the colored part of the eye that surrounds the pupil; a flower with showy petals, named for its resemblance to the eye's iris
123. die to the associate	v.	to state or give order with total authority; to say or read aloud for somebody else to write down or to be recorded
124. con silk	n.	a protective covering spun by some insects and other invertebrates
125. Arc cuisine	n.	the Semitic language of the Arab people, widely spoken throughout the Middle East and North Africa; of or relating to Arab peoples, culture, or language

ANSWERS: 117. microbiome, 118. microorganism, 119. scorpion, 120. reimagine, 121. seam, 122. iris, 123. dictate, 124. cocoon, 125. Arabic

126. black ate case	n.	a person who works at an embassy, usually having a specialized area of responsibility; a shallow and rectangular briefcase
127. roc guide operation	adj.	of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
128. low recity problem	n.	the degree to which a material or product can be reused or repurposed after it has served its original function, without requiring significant modifications or environmental harm
129. unl a knit	<i>v</i> .	undo twisted, knitted, or woven threads by separating it
130. grd away at my work	ν.	to reduce something to small particles or powder by crushing or rubbing it; to

ANSWERS: 126. attache, 127. robotic, 128. recyclability, 129. unravel, 130. grind

work hard over a long period of time

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

1.	The study of Escherichia has led to important advancements in areas such as antibiotic resistance, gut microbiome, and synthetic biology.
n.	a bacterium of the genus Escherichia that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry
2.	The allies the terms of surrender to the country.
v.	to state or give order with total authority; to say or read aloud for somebody else to write down or to be recorded
3.	Economic factors and monetary policy inflation.
<i>v</i> .	to increase the size, extent, quantity, etc. of something by adding something to it
4.	The of the eye contracts and expands to control the amount of light that enters.
n.	the colored part of the eye that surrounds the pupil; a flower with showy petals, named for its resemblance to the eye's iris
5.	The outdoor wedding reception was held in a beautiful overlooking the lake.
n.	a large, often ornate tent or booth, often used for entertainment or public events; a building or structure, often in a park or other public space, used for meetings, exhibitions, or social gatherings
6.	The of the company's financial statements raised suspicions of fraud.
n.	the quality or state of being opaque (= not allowing light to pass through); a lack of transparency or clarity in a person's behavior, motives, or communication
AN	SWERS: 1. coli, 2. dictated, 3. augmented, 4. iris, 5. pavilion, 6. opacity

7.	He stepped on the gas pedal, and the engine released a loud
n.	a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
8.	The intricate on the wooden box was the work of a master craftsman.
n.	the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design
9.	A prime minister talked with a military of the country's embassy.
n.	a person who works at an embassy, usually having a specialized area of responsibility; a shallow and rectangular briefcase
10.	The car wash sprayed a powerful stream of soapy water onto the vehicle.
n.	a tube or spout through which a liquid or gas is discharged, particularly one attached to a hose, pump, or spray gun
11.	The curtains were made of fabric that blocked out all light.
adj	not transparent; not allowing light to pass through; not permitting a clear view
12.	He was known to be very and would often work late into the night.
adj	hardworking, diligent, and persistent in effort
13.	The archaeologist used a small to excavate the ancient artifact.
n.	a tool with a sharpened edge at one end used for shaping wood, stone, or metal; (verb) to engage in deceitful behavior
14.	The of the school's dress code policy caused much controversy among the students and parents.
n.	the state or quality of being rigid or inflexible; the inability to adapt to change or new circumstances; the condition of being stiff or unyielding
	SWERS: 7. rev, 8. carving, 9. attache, 10. nozzle, 11. opaque, 12. industrious, 13 sel, 14. rigidity

23.	The toxic algae bloom in the lake was caused by an overgrowth of
n.	a group of photosynthetic bacteria that possess chlorophyll and blue pigments and are characteristically found in aquatic environments; also known as blue-green algae
24.	Detectives are still attempting to the mystery of his death.
<i>v</i> .	undo twisted, knitted, or woven threads by separating it
25.	They events that have already occurred.
<i>v</i> .	to describe what happened or to narrate a story
26.	The company plans to its new product at the trade show next week.
v.	to reveal or make something publicly known, especially for the first time
27.	My friend is a woman who celebrates Hanukkah every year.
adj	of or relating to people whose traditional religion is Judaism
28.	The artist used a pasta machine to clay into intricate shapes.
v.	to force, push, or press out through a narrow opening or nozzle, often in a continuous fashion; to shape materials by squeezing them through a die or mold
29.	This process improves the strength of the metal by controlling thelattice structure of the metal.
adj	on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
30.	A nutritious diet improves functions.
adj	relating to or capable of causing or promoting digestion of food
	SWERS: 23. cyanobacteria, 24. unravel, 25. recount, 26. unveil, 27. Jewish, 28. rude, 29. nanoscale, 30. digestive

opportune, 58. biodegraded, 59. archetype, 60. moth