# **Englist.me**

## Vocabulary Builder Reference from...

Marusa Brada: The science of snowflakes | TED Talk https://www.ted.com/talks/marusa\_brada\_the\_scienc e\_of\_snowflakes



### All Words

#### IMPORTANT

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## **Session 1: Word List**

gaze	<ul> <li>v. to stare at something or someone for an extended time, usually out of surprise or adoration, or because you are thinking about something else</li> <li>synonym: stare, gawk, look</li> </ul>
	(1) gaze steadily at his face, (2) gaze absently out a window
	The youngster was <b>gazed</b> at by the beast.
snowflake	<ul> <li><i>n</i>. a small, thin, delicate piece of snow; a person, especially a young person, who is perceived as overly sensitive, easily offended, or with an inflated sense of entitlement</li> <li><i>synonym</i>: flake, crystal, ice pellet</li> </ul>
	(1) delicate <b>snowflake</b> , (2) <b>snowflake</b> pattern
	The Christmas tree was beautifully decorated with delicate <b>snowflake</b> ornaments.
glove	<ul> <li><i>n</i>. a piece of clothing worn on the hand and wrist for protection against cold, dirt, etc., with separate parts for each finger</li> <li><i>synonym</i>: mitt</li> </ul>
	(1) a right-hand <b>glove</b> , (2) 5-finger <b>glove</b>
	She was wearing a black <b>glove</b> .

examine	<ul> <li>v. to study or consider a person or object attentively and thoroughly to learn something about them</li> <li>synonym: study, probe, analyze</li> </ul>
	(1) <b>examine</b> the data studiously, (2) <b>examine</b> the issue
	Initially, we must <b>examine</b> all project-related expenses.
symmetrical	<i>adj.</i> having similarity in size, shape, and relative position of corresponding parts
	synonym: harmonious, balanced, proportional
	(1) symmetrical triangle, (2) symmetrical pattern
	This figure is <b>symmetrical</b> about the x-axis.
cube	<ul> <li>n. a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times</li> <li>synonym: block, square, cell</li> </ul>
	(1) <b>cube</b> root, (2) ice <b>cube</b>
	I cut the cheese into small <b>cubes</b> for the salad.
freezer	<ul> <li><i>n</i>. a device that keeps food, beverages, or other perishable items at low temperatures to maintain their freshness or preserve them for later use</li> <li><i>synonym</i>: refrigerator, icebox, cooler</li> </ul>
	(1) portable <b>freezer</b> , (2) <b>freezer</b> bag
	I put the ice cream in the <b>freezer</b> to keep it from melting.
liquid	<ul> <li>n. a substance, such as water or oil that flows freely and is neither a solid nor a gas</li> <li>synonym: fluid</li> </ul>
	(1) colorless liquid, (2) hazardous liquid
	The sponge takes up the <b>liquid</b> well.
solid	<i>adj.</i> hard or firm; characterized by good substantial quality <i>synonym</i> : stable, reliable, hard
	(1) <b>solid</b> ally, (2) <b>solid</b> employment measures
	The solid-state of water is called ice.

vapor	<ul> <li>a mass of tiny liquid drops in the air</li> <li>synonym: condensation, dew, fog</li> </ul>				
	(1) alcohol <b>vapor</b> , (2) water <b>vapor</b> in the atmosphere				
	Clouds form when water vapor rises to the upper				
	atmosphere.				
straight	<i>adj.</i> extending or moving in one direction without bending or curving; having no deviations				
	synonym: linear, honest, consecutive				
	(1) a straight line, (2) straight for two months				
	He was sick for five <b>straight</b> days.				
delve	<ul> <li>v. to dig or excavate deeply; to investigate or research intensively; to rummage or explore in a thorough or careful manner</li> </ul>				
	synonym: dig, excavate, uncover				
	(1) <b>delve</b> deeper, (2) <b>delve</b> into documents				
	Researchers must <b>delve</b> into the intricacies of the human brain to understand mental illness.				
physics	<i>n.</i> the science of matter and energy and their interactions				
	(1) nuclear <b>physics</b> , (2) laws of <b>physics</b>				
	He studied the <b>physics</b> of radiation.				
hydrogen	<i>n.</i> the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water				
	(1) <b>hydrogen</b> gas, (2) heavy <b>hydrogen</b>				
	The hydrogen and the oxygen react and then form water.				
atom	<ul> <li>n. the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus</li> <li>synonym: particle, element, fraction</li> </ul>				
	(1) oxygen atom, (2) neutral hydrogen atoms				
	The outermost electron shell of an <b>atom</b> determines its				
	chemical characteristics.				

oxygen	<i>n</i> . the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
	(1) the hydrogen binds the <b>oxygen</b> , (2) lack of <b>oxygen</b>
	The passenger grabbed for the <b>oxygen</b> mask.
molecule	<ul> <li><i>n</i>. a group of two or more atoms held together by attractive forces known as chemical bonds</li> <li><i>synonym</i>: particle, element, atom</li> </ul>
	(1) small molecules, (2) molecule behavior
	The shape of the DNA <b>molecule</b> is a double helix.
proton	<ul> <li>a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms</li> </ul>
	(1) <b>proton</b> decay, (2) <b>proton</b> conductivity
	The solar wind is composed almost entirely of electrons and
	protons.
electron	<i>n.</i> a tiny particle with the negative electrical charge <i>synonym</i> : negatron
	(1) flow of <b>electrons</b> , (2) beam of <b>electrons</b>
	The outermost <b>electron</b> shell determines the chemical properties of an atom.
shell	<i>n</i> . hard outer covering or case of eggs, nuts, some seeds, and some animals
	synonym: ammunition, armor, cover
	(1) an egg <b>shell</b> , (2) a mollusk <b>shell</b>
	The outermost electron <b>shell</b> determines the chemical
	properties of an atom.
bond	<ul> <li>a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money</li> </ul>
	synonym: bind, adhesion, attachment
	(1) <b>bond</b> as a family, (2) global <b>bond</b> market

They had formed a friendship **bond**.

covalent	<ul> <li><i>adj.</i> pertaining to or characterized by the sharing of electron pairs between atoms in a molecule, resulting in the formation of a covalent bond</li> <li><i>synonym</i>: shared, bonded, molecular</li> </ul>
	(1) covalent interaction, (2) covalent compound
	In chemistry, <b>covalent</b> bonding involves the sharing of
	electrons between atoms.
negative	<i>adj.</i> having the quality of something bad or harmful; expressing refusal
	synonym: minus, adverse, pessimistic
	(1) have a <b>negative</b> effect, (2) a <b>negative</b> number
	The movie has received almost universally negative
	criticism.
repel	<i>v.</i> to force an attack or attacker to withdraw or retreat <i>synonym</i> : turn away, fight off, force back
	(1) repel bandits, (2) repel bad luck
	This material can <b>repel</b> moisture swiftly.
repulsion	<ul> <li><i>n</i>. a feeling of intense disgust or dislike; a physical force that resists the approach or contact of two objects</li> <li><i>synonym</i>: dislike, disgust, repugnance</li> </ul>
	(1) repulsion force, (2) sense of repulsion
	The sight of spiders fills me with <b>repulsion</b> .
degree	<ul> <li>a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment</li> <li>synonym: level, qualification, diploma</li> </ul>
	<ul><li>(1) bachelor's degree, (2) degree centigrade</li><li>She received her degree in psychology from the university.</li></ul>
	ene received her degree in psychology norm the university.
electrical	adj. relating to electricity
	(1) an electrical storm, (2) degree in electrical engineering

Actuators convert **electrical** pulses into motion. *adj.* not helping or assisting either side in a conflict, neutral argument, etc. synonym: impartial, uninvolved, halfhearted (1) permanently **neutral** country, (2) **neutral** colors A legislative speaker should always be **neutral**. *adv.* in a small degree or extent; a little slightly synonym: barely, narrowly, scarcely (1) increase slightly, (2) slightly alkaline soils He moved his body **slightly** to the left. to draw or entice someone or something towards them attract v. through the qualities they have, especially positive ones synonym: lure, entice, draw in (1) attract attention, (2) attract customers The government is eager to **attract** international investment. *adj.* furthest or highest in degree or order ultimate synonym: highest, maximum, foremost (1) the **ultimate** goal in life, (2) the **ultimate** luxury Management must take **ultimate** responsibility for the accident. a six-sided polygon with six angles and six sides of hexagon n. equal length synonym: hexahedron, six-sided figure, six-gon (1) **hexagon** head bolt, (2) **hexagon** pattern The honeycomb structure of a beehive is made up of hexagons. the way of construction of something and the structure n. arrangement of its parts, or a complex thing constructed of many parts synonym: construction, architecture, establishment

	(1) the <b>structure</b> of a machine, (2) <b>structure</b> and function of the brain
	The organizational <b>structure</b> of start-ups is often flat and straightforward.
retain	v. to keep or continue to possess or maintain something <i>synonym</i> : possess, hold, keep on
	(1) <b>retain</b> information, (2) <b>retain</b> a lawyer
	Computers help people <b>retain</b> specific memories.
stick	<ul> <li>v. to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material</li> </ul>
	synonym: pierce, adhere, stay
	(1) <b>stick</b> a key in a lock, (2) fire <b>stick</b>
	You <b>stick</b> a bill in the change machine, and the coins pop
	out.
expand	<ul> <li>v. to increase or to make something greater in size, number, or importance</li> <li>synonym: extend, grow, boost</li> </ul>
	(1) <b>expand</b> a lineup, (2) <b>expand</b> agricultural output
	They hope to <b>expand</b> their business worldwide.
outward	<i>adj.</i> relating to the external appearance or surface of something; visible
	synonym: external, surface, exterior
	(1) an <b>outward</b> journey, (2) <b>outward</b> cheerfulness
	The <b>outward</b> appearance of the building was impressive, but
	the inside was in dire need of repairs.
develop	<ul> <li>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</li> </ul>

	<ul> <li>synonym: evolve, progress, advance</li> <li>(1) develop a strategy, (2) develop a skill</li> <li>We must develop a new system to streamline our workflow and increase efficiency.</li> </ul>
atmospheric	adj. about or located in the earth's atmosphere synonym: atmospherical, climatic
	<ul><li>(1) doubling of atmospheric carbon dioxide,</li><li>(2) atmospheric pressure</li></ul>
	The sea surface temperature and <b>atmospheric</b> circulation are inextricably linked.
humidity	<ul> <li>n. the amount of water vapor in the air, typically as a percentage of the maximum that the air could hold at that temperature</li> <li>synonym: moisture, dampness, wetness</li> </ul>
	(1) uncomfortable humidity, (2) humidity sensor
	The <b>humidity</b> in the tropical forest was so high that it was hard to breathe.
temperature	<i>n.</i> the degree of hotness or coldness of a thing or place <i>synonym</i> : climate, warmth, degree
	(1) extreme <b>temperatures</b> , (2) the atmospheric <b>temperature</b>
	Cities around the world set records for highest <b>temperatures</b> this summer.
differentiate	<ul> <li>v. to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative</li> <li>synonym: discern, distinguish, separate</li> </ul>
	(1) <b>differentiate</b> between fact and fiction, (2) <b>differentiate</b> a function
	The teacher asked the students to <b>differentiate</b> between the two similar species of birds.

symmetry	<ul> <li>n. balance or proportion in design or structure, with elements arranged evenly on either side of an axis</li> <li>synonym: balance, proportion, harmoniousness</li> </ul>
	(1) bilateral <b>symmetry</b> , (2) axial <b>symmetry</b>
	The building had a symmetry pattern that was pleasing to
	the eye.
critic	<i>n.</i> someone who expresses opinions about the quality of books, music, etc.
	synonym: pundit, analyst, attacker
	(1) art <b>critic</b> , (2) severe <b>critic</b>
	Advocates for legal reform hear less harsh words from their critics.
wintry	<ul> <li>adj. relating to or characteristic of winter, including snow, ice, cold temperatures, and short days; bleak or cold in appearance, feeling, or behavior</li> <li>synonym: cold, icy, snowy</li> </ul>
	(1) wintry weather, (2) wintry scenery
	The children built a <b>wintry</b> snowman in the backyard.
friction	<ul> <li>n. the force that opposes motion between two objects in contact, especially by producing heat and wear, and is proportional to the normal force between the objects</li> <li>synonym: rub, scrape, resistance</li> </ul>
	(1) friction force, (2) surface friction
	The friction between the two countries was causing tension.
jagged	<i>adj.</i> having a rough and sharply uneven surface or outline <i>synonym</i> : bumpy, irregular, craggy
	(1) <b>jagged</b> edges, (2) the <b>jagged</b> outline of the crags There are several <b>jagged</b> limestone peaks throughout the mountains.
rub	<ul> <li>v. to move one's hand or an object over the surface of something with pressure</li> <li>synonym: scrub, massage, stroke</li> </ul>

	<ul><li>(1) rub shoulders, (2) rub a glass window</li><li>She rubbed the sore spot on her leg to ease the pain.</li></ul>
slide	<ul> <li>v. to move or cause to move smoothly along a surface without interruption</li> <li>synonym: glide, drift, drop</li> </ul>
	(1) <b>slide</b> a card across the table, (2) <b>slide</b> a glance
	If necessary, you can <b>slide</b> the front seats forward.
technique	n. a particular way or art of doing something that needs skill
	synonym: approach, procedure, strategy
	(1) a <b>technique</b> in martial arts, (2) the <b>technique</b> applied to construction
	Jockey's superior technique brought him victory.
definitely	<i>adv.</i> without any question and beyond doubt; clearly <i>synonym</i> : absolutely, certainly, indeed
	(1) <b>definitely</b> become a problem, (2) say <b>definitely</b>
	The paper is <b>definitely</b> worth reading thoroughly.
identical	<i>adj.</i> being the exact same one <i>synonym</i> : duplicate, exact, analogous
	(1) pair of identical twins, (2) an identical equation
	Infant formulas are nutritionally almost <b>identical</b> to a mother's breast milk.
mystery	<ul> <li>n. something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle</li> <li>synonym: enigma, puzzle, secret</li> </ul>
	(1) <b>mystery</b> novel, (2) unsolved <b>mystery</b>
	The <b>mystery</b> surrounding the disappearance of the traveler
	has yet to be solved by authorities.

branch	<ul> <li>n. a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization</li> <li>synonym: limb, twig, bough</li> </ul>
	(1) <b>branch</b> office, (2) a <b>branch</b> pipe
	The <b>branch</b> of the tree had fallen and blocked the road.
fractal	<ul> <li>n. a complex geometric pattern or shape that repeats itself on smaller and smaller scales, often occurring in nature or mathematical equations</li> <li>synonym: pattern, design, geometry</li> </ul>
	(1) fractal pattern, (2) fractal art
	The coastline of Norway is one of the most famous examples of <b>fractal</b> geometry in nature.

## **Session 2: Spelling**

1.	huty sensor	n.	the amount of water vapor in the air, typically as a percentage of the maximum that the air could hold at that temperature
2.	the hydrogen binds the oxn	n.	the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
3.	bd as a family	n.	a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money
4.	portable frr	n.	a device that keeps food, beverages, or other perishable items at low temperatures to maintain their freshness or preserve them for later use
5.	ren information	v.	to keep or continue to possess or maintain something
6.	stk a key in a lock	v.	to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
7.	jad edges	adj.	having a rough and sharply uneven surface or outline
8.	att attention	V.	to draw or entice someone or something towards them through the qualities they have, especially positive ones

ANSWERS: 1. humidity, 2. oxygen, 3. bond, 4. freezer, 5. retain, 6. stick, 7. jagged, 8. attract

9. extreme temres	n.	the degree of hotness or coldness of a thing or place
10. prn conductivity	n.	a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
11. ce root	n.	a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times
12. brh office	n.	a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
13. surface fron	n.	the force that opposes motion between two objects in contact, especially by producing heat and wear, and is proportional to the normal force between the objects
14. neutral hydrogen ams	n.	the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
15. frl art	n.	a complex geometric pattern or shape that repeats itself on smaller and smaller scales, often occurring in nature or mathematical equations
16. symal pattern	adj.	having similarity in size, shape, and relative position of corresponding parts

ANSWERS: 9. temperature, 10. proton, 11. cube, 12. branch, 13. friction, 14. atom, 15. fractal, 16. symmetrical

17. slly alkaline soils	adv.	in a small degree or extent; a little
18. dee deeper	v.	to dig or excavate deeply; to investigate or research intensively; to rummage or explore in a thorough or careful manner
19. rel bad luck	v.	to force an attack or attacker to withdraw or retreat
20. ice ce	n.	a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times
21. nel colors	adj.	not helping or assisting either side in a conflict, argument, etc.
22. the ulte luxury	adj.	furthest or highest in degree or order
23. 5-finger gle	n.	a piece of clothing worn on the hand and wrist for protection against cold, dirt, etc., with separate parts for each finger
24. the jad outline of the crags	adj.	having a rough and sharply uneven surface or outline
25. difate a function	v.	to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative
26. exd agricultural output	v.	to increase or to make something greater in size, number, or importance
27. alcohol var	n.	a mass of tiny liquid drops in the air
28. dep a skill	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

ANSWERS: 17. slightly, 18. delve, 19. repel, 20. cube, 21. neutral, 22. ultimate, 23. glove, 24. jagged, 25. differentiate, 26. expand, 27. vapor, 28. develop

29. doubling of atmic carbon dioxide	adj.	about or located in the earth's atmosphere
30. sle a glance	v.	to move or cause to move smoothly along a surface without interruption
31. stre and function of the brain	n.	the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
32. exe the issue	v.	to study or consider a person or object attentively and thoroughly to learn something about them
33. atmic pressure	adj.	about or located in the earth's atmosphere
34. reon force	n.	a feeling of intense disgust or dislike; a physical force that resists the approach or contact of two objects
35. unsolved myy	n.	something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
36. a teue in martial arts	n.	a particular way or art of doing something that needs skill
37. myy novel	n.	something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

ANSWERS: 29. atmospheric, 30. slide, 31. structure, 32. examine, 33. atmospheric, 34. repulsion, 35. mystery, 36. technique, 37. mystery

38. ge absently out a window	v.	to stare at something or someone for an extended time, usually out of surprise or adoration, or because you are thinking about something else
39. a neve number	adj.	having the quality of something bad or harmful; expressing refusal
40. snke pattern	n.	a small, thin, delicate piece of snow; a person, especially a young person, who is perceived as overly sensitive, easily offended, or with an inflated sense of entitlement
41. dee into documents	v.	to dig or excavate deeply; to investigate or research intensively; to rummage or explore in a thorough or careful manner
42. cont interaction	adj.	pertaining to or characterized by the sharing of electron pairs between atoms in a molecule, resulting in the formation of a covalent bond
43. oud cheerfulness	adj.	relating to the external appearance or surface of something; visible
44. bachelor's dee	n.	a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
45. a brh pipe	n.	a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
46. uncomfortable huty	n.	the amount of water vapor in the air, typically as a percentage of the maximum that the air could hold at that temperature

ANSWERS: 38. gaze, 39. negative, 40. snowflake, 41. delve, 42. covalent, 43. outward, 44. degree, 45. branch, 46. humidity

47.	frr bag	n.	a device that keeps food, beverages, or other perishable items at low temperatures to maintain their freshness or preserve them for later use
48.	permanently neI country	adj.	not helping or assisting either side in a conflict, argument, etc.
49.	sod employment measures	adj.	hard or firm; characterized by good substantial quality
50.	small moles	n.	a group of two or more atoms held together by attractive forces known as chemical bonds
51.	an eleal storm	adj.	relating to electricity
52.	difate between fact and fiction	v.	to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative
53.	wiy scenery	adj.	relating to or characteristic of winter, including snow, ice, cold temperatures, and short days; bleak or cold in appearance, feeling, or behavior
54.	r_b shoulders	v.	to move one's hand or an object over the surface of something with pressure
55.	degree in eleal engineering	adj.	relating to electricity
56.	an idal equation	adj.	being the exact same one
57.	bilateral syry	n.	balance or proportion in design or structure, with elements arranged evenly on either side of an axis
58.	flow of elons	n.	a tiny particle with the negative electrical charge

ANSWERS: 47. freezer, 48. neutral, 49. solid, 50. molecule, 51. electrical, 52. differentiate, 53. wintry, 54. rub, 55. electrical, 56. identical, 57. symmetry, 58. electron

59.	global bd market	n.	a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money
60.	oxygen am	n.	the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
61.	art crc	n.	someone who expresses opinions about the quality of books, music, etc.
62.	hyen gas	n.	the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
63.	exe the data studiously	v.	to study or consider a person or object attentively and thoroughly to learn something about them
64.	wiy weather	adj.	relating to or characteristic of winter, including snow, ice, cold temperatures, and short days; bleak or cold in appearance, feeling, or behavior
65.	ge steadily at his face	ν.	to stare at something or someone for an extended time, usually out of surprise or adoration, or because you are thinking about something else
66.	fron force	n.	the force that opposes motion between two objects in contact, especially by producing heat and wear, and is proportional to the normal force between the objects

ANSWERS: 59. bond, 60. atom, 61. critic, 62. hydrogen, 63. examine, 64. wintry, 65. gaze, 66. friction

67.	dep a strategy	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
68.	dee centigrade	n.	a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
69.	the stre of a machine	n.	the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
70.	mole behavior	n.	a group of two or more atoms held together by attractive forces known as chemical bonds
71.	delicate snke	n.	a small, thin, delicate piece of snow; a person, especially a young person, who is perceived as overly sensitive, easily offended, or with an inflated sense of entitlement
72.	sod ally	adj.	hard or firm; characterized by good substantial quality
73.	axial syry	n.	balance or proportion in design or structure, with elements arranged evenly on either side of an axis
74.	prn decay	n.	a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms

ANSWERS: 67. develop, 68. degree, 69. structure, 70. molecule, 71. snowflake, 72. solid, 73. symmetry, 74. proton

75. sle a card across the table	v.	to move or cause to move smoothly along a surface without interruption
76. nuclear phs	n.	the science of matter and energy and their interactions
77. frl pattern	n.	a complex geometric pattern or shape that repeats itself on smaller and smaller scales, often occurring in nature or mathematical equations
78. exd a lineup	v.	to increase or to make something greater in size, number, or importance
79. severe crc	n.	someone who expresses opinions about the quality of books, music, etc.
80. pair of idal twins	adj.	being the exact same one
81. hen pattern	n.	a six-sided polygon with six angles and six sides of equal length
82. an oud journey	adj.	relating to the external appearance or surface of something; visible
83. say defly	adv	without any question and beyond doubt; clearly
84. a mollusk shl	n.	hard outer covering or case of eggs, nuts, some seeds, and some animals
85. increase slly	adv	in a small degree or extent; a little
86. rel bandits	v.	to force an attack or attacker to withdraw or retreat
87. defly become a problem	adv	without any question and beyond doubt; clearly
88. sense of reon	n.	a feeling of intense disgust or dislike; a physical force that resists the approach or contact of two objects

ANSWERS: 75. slide, 76. physics, 77. fractal, 78. expand, 79. critic, 80. identical, 81. hexagon, 82. outward, 83. definitely, 84. shell, 85. slightly, 86. repel, 87. definitely, 88. repulsion

89. colorless lid	n.	a substance, such as water or oil that flows freely and is neither a solid nor a gas
90. hen head bolt	n.	a six-sided polygon with six angles and six sides of equal length
91. stht for two months	adj.	extending or moving in one direction without bending or curving; having no deviations
92. r_b a glass window	ν.	to move one's hand or an object over the surface of something with pressure
93. the atmospheric temre	n.	the degree of hotness or coldness of a thing or place
94. the ulte goal in life	adj.	furthest or highest in degree or order
95. hazardous lid	n.	a substance, such as water or oil that flows freely and is neither a solid nor a gas
96. ren a lawyer	v.	to keep or continue to possess or maintain something
97. water var in the atmosphere	n.	a mass of tiny liquid drops in the air
98. heavy hyen	n.	the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
99. have a neve effect	adj.	having the quality of something bad or harmful; expressing refusal
100. cont compound	adj.	pertaining to or characterized by the sharing of electron pairs between atoms in a molecule, resulting in the formation of a covalent bond

ANSWERS: 89. liquid, 90. hexagon, 91. straight, 92. rub, 93. temperature, 94. ultimate, 95. liquid, 96. retain, 97. vapor, 98. hydrogen, 99. negative, 100. covalent

101. symal triangle	adj.	having similarity in size, shape, and relative position of corresponding parts
102. beam of elons	n.	a tiny particle with the negative electrical charge
103. a stht line	adj.	extending or moving in one direction without bending or curving; having no deviations
104. the teue applied to construction	n.	a particular way or art of doing something that needs skill
105. att customers	v.	to draw or entice someone or something towards them through the qualities they have, especially positive ones
106. a right-hand gle	n.	a piece of clothing worn on the hand and wrist for protection against cold, dirt, etc., with separate parts for each finger
107. fire stk	v.	to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
108. lack of oxn	n.	the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
109. laws of phs	n.	the science of matter and energy and their interactions
110. an egg shl	n.	hard outer covering or case of eggs, nuts, some seeds, and some animals

ANSWERS: 101. symmetrical, 102. electron, 103. straight, 104. technique, 105. attract, 106. glove, 107. stick, 108. oxygen, 109. physics, 110. shell

ANSWERS:

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

- 1. This figure is \_\_\_\_\_ about the x-axis.
- adj. having similarity in size, shape, and relative position of corresponding parts
- 2. The youngster was \_\_\_\_\_ at by the beast.
- *v.* to stare at something or someone for an extended time, usually out of surprise or adoration, or because you are thinking about something else
- 3. The \_\_\_\_\_\_ appearance of the building was impressive, but the inside was in dire need of repairs.
- adj. relating to the external appearance or surface of something; visible
- 4. The sea surface temperature and \_\_\_\_\_\_ circulation are inextricably linked.
- adj. about or located in the earth's atmosphere
- 5. The outermost electron \_\_\_\_\_ determines the chemical properties of an atom.
- *n.* hard outer covering or case of eggs, nuts, some seeds, and some animals
- 6. Initially, we must \_\_\_\_\_ all project-related expenses.
- *v.* to study or consider a person or object attentively and thoroughly to learn something about them
- 7. She was wearing a black \_\_\_\_\_.
- *n.* a piece of clothing worn on the hand and wrist for protection against cold, dirt, etc., with separate parts for each finger
- 8. A legislative speaker should always be \_\_\_\_\_.
- *adj.* not helping or assisting either side in a conflict, argument, etc.

ANSWERS: 1. symmetrical, 2. gazed, 3. outward, 4. atmospheric, 5. shell, 6. examine, 7. glove, 8. neutral

- 9. Researchers must \_\_\_\_\_ into the intricacies of the human brain to understand mental illness.
  - v. to dig or excavate deeply; to investigate or research intensively; to rummage or explore in a thorough or careful manner
- 10. I cut the cheese into small \_\_\_\_\_ for the salad.
- *n.* a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times
- 11. The movie has received almost universally \_\_\_\_\_\_ criticism.
- adj. having the quality of something bad or harmful; expressing refusal
- 12. There are several \_\_\_\_\_ limestone peaks throughout the mountains.
- adj. having a rough and sharply uneven surface or outline
- 13. We must \_\_\_\_\_\_ a new system to streamline our workflow and increase efficiency.
- 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
- 14. The \_\_\_\_\_\_ in the tropical forest was so high that it was hard to breathe.
- *n.* the amount of water vapor in the air, typically as a percentage of the maximum that the air could hold at that temperature
- 15. He studied the \_\_\_\_\_ of radiation.
- *n.* the science of matter and energy and their interactions
- 16. The \_\_\_\_\_\_ of the tree had fallen and blocked the road.
- *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization

ANSWERS: 9. delve, 10. cubes, 11. negative, 12. jagged, 13. develop, 14. humidity, 15. physics, 16. branch

- 17. This material can \_\_\_\_\_ moisture swiftly.
- *v*. to force an attack or attacker to withdraw or retreat
- 18. The children built a \_\_\_\_\_\_ snowman in the backyard.
- *adj.* relating to or characteristic of winter, including snow, ice, cold temperatures, and short days; bleak or cold in appearance, feeling, or behavior
- 19. The solar wind is composed almost entirely of electrons and \_\_\_\_\_.
- *n.* a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
- 20. Clouds form when water \_\_\_\_\_ rises to the upper atmosphere.
- *n.* a mass of tiny liquid drops in the air
- 21. The \_\_\_\_\_\_ surrounding the disappearance of the traveler has yet to be solved by authorities.
- *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
- 22. She \_\_\_\_\_ the sore spot on her leg to ease the pain.
- *v.* to move one's hand or an object over the surface of something with pressure
- 23. Management must take \_\_\_\_\_ responsibility for the accident.
  - adj. furthest or highest in degree or order
- 24. In chemistry, \_\_\_\_\_\_ bonding involves the sharing of electrons between atoms.
- *adj.* pertaining to or characterized by the sharing of electron pairs between atoms in a molecule, resulting in the formation of a covalent bond

ANSWERS: 17. repel, 18. wintry, 19. protons, 20. vapor, 21. mystery, 22. rubbed, 23. ultimate, 24. covalent

- 25. The government is eager to \_\_\_\_\_\_ international investment.
  - v. to draw or entice someone or something towards them through the qualities they have, especially positive ones
- 26. The Christmas tree was beautifully decorated with delicate \_\_\_\_\_\_ ornaments.
- *n.* a small, thin, delicate piece of snow; a person, especially a young person, who is perceived as overly sensitive, easily offended, or with an inflated sense of entitlement
- 27. If necessary, you can \_\_\_\_\_ the front seats forward.
- *v*. to move or cause to move smoothly along a surface without interruption
- 28. The coastline of Norway is one of the most famous examples of \_\_\_\_\_\_ geometry in nature.
- *n.* a complex geometric pattern or shape that repeats itself on smaller and smaller scales, often occurring in nature or mathematical equations
- 29. The honeycomb structure of a beehive is made up of \_\_\_\_\_.
- *n.* a six-sided polygon with six angles and six sides of equal length
- 30. The sponge takes up the \_\_\_\_\_ well.
- *n*. a substance, such as water or oil that flows freely and is neither a solid nor a gas
- 31. The \_\_\_\_\_ and the oxygen react and then form water.
  - *n.* the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
- 32. The passenger grabbed for the \_\_\_\_\_ mask.
- *n*. the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

ANSWERS: 25. attract, 26. snowflake, 27. slide, 28. fractal, 29. hexagons, 30. liquid, 31. hydrogen, 32. oxygen

- 33. Jockey's superior \_\_\_\_\_ brought him victory.
  - *n.* a particular way or art of doing something that needs skill
- 34. The outermost \_\_\_\_\_\_ shell determines the chemical properties of an atom.
- *n.* a tiny particle with the negative electrical charge
- 35. I put the ice cream in the \_\_\_\_\_ to keep it from melting.
- *n.* a device that keeps food, beverages, or other perishable items at low temperatures to maintain their freshness or preserve them for later use
- 36. The shape of the DNA \_\_\_\_\_ is a double helix.
- *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
- 37. The paper is \_\_\_\_\_\_ worth reading thoroughly.
  - adv. without any question and beyond doubt; clearly
- 38. The outermost electron shell of an \_\_\_\_\_ determines its chemical characteristics.
  - *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
- 39. Infant formulas are nutritionally almost \_\_\_\_\_\_ to a mother's breast milk.
- adj. being the exact same one
- 40. She received her \_\_\_\_\_ in psychology from the university.
- *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
- 41. The \_\_\_\_\_\_ of water is called ice.
- adj. hard or firm; characterized by good substantial quality

ANSWERS: 33. technique, 34. electron, 35. freezer, 36. molecule, 37. definitely, 38. atom, 39. identical, 40. degree, 41. solid-state

- 42. The building had a \_\_\_\_\_\_ pattern that was pleasing to the eye.
- *n.* balance or proportion in design or structure, with elements arranged evenly on either side of an axis
- 43. The \_\_\_\_\_\_ between the two countries was causing tension.
- *n*. the force that opposes motion between two objects in contact, especially by producing heat and wear, and is proportional to the normal force between the objects
- 44. Cities around the world set records for highest \_\_\_\_\_\_ this summer.
- *n.* the degree of hotness or coldness of a thing or place
- 45. Computers help people \_\_\_\_\_ specific memories.
  - v. to keep or continue to possess or maintain something
- 46. Actuators convert \_\_\_\_\_ pulses into motion.
- *adj.* relating to electricity
- 47. Advocates for legal reform hear less harsh words from their \_\_\_\_\_.
- *n.* someone who expresses opinions about the quality of books, music, etc.
- 48. The sight of spiders fills me with \_\_\_\_\_.
- *n.* a feeling of intense disgust or dislike; a physical force that resists the approach or contact of two objects
- 49. He was sick for five \_\_\_\_\_ days.
- *adj.* extending or moving in one direction without bending or curving; having no deviations

ANSWERS: 42. symmetry, 43. friction, 44. temperatures, 45. retain, 46. electrical, 47. critics, 48. repulsion, 49. straight

- 50. You \_\_\_\_\_\_ a bill in the change machine, and the coins pop out.
  - v. to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
- 51. The teacher asked the students to \_\_\_\_\_\_ between the two similar species of birds.
  - *v.* to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative
- 52. He moved his body \_\_\_\_\_ to the left.
- adv. in a small degree or extent; a little
- 53. The organizational \_\_\_\_\_\_ of start-ups is often flat and straightforward.
- *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
- 54. They had formed a friendship \_\_\_\_\_.
- *n.* a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money
- 55. They hope to \_\_\_\_\_ their business worldwide.
- *v.* to increase or to make something greater in size, number, or importance

ANSWERS: 50. stick, 51. differentiate, 52. slightly, 53. structure, 54. bond, 55. expand