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Vocabulary Builder Reference from...

Josh Samani: What can Schrödinger's cat teach us about quantum mechanics? | TED Talk https://www.ted.com/talks/josh_samani_what_can_sc hrodinger_s_cat_teach_us_about_quantum_mechani cs



All Words

IMPORTANT

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Session 1: Word List

straight	 <i>adj.</i> extending or moving in one direction without bending or curving; having no deviations <i>synonym</i>: linear, honest, consecutive (1) a straight line, (2) straight for two months He was sick for five straight days.
predict	 v. to state beforehand that something will happen in the future, mainly based on knowledge or experience synonym: forecast, anticipate, foresee
	(1) predict the future, (2) predict when she will arrive
	It's notoriously challenging to predict birth rates.
upward	 adv. toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place synonym: skyward, uphill
	(1) look upward , (2) demonstrate an upward trend
	The company adjusted the revenue upward .
wit	 n. the ability to say or write things or ideas in a clever and humorous way synonym: humor, comedy, funniness

	(1) the wit of man, (2) full of witHe has the wit to keep talking about this topic.
countless	 adj. too numerous to be counted or very many synonym: innumerable, myriad, numerous (1) countless hours, (2) answer countless questions There are countless methods for dealing with stress.
observe	 v. to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion synonym: watch, monitor, scrutinize
	(1) observe a tradition, (2) observe wildlife
	It is important to observe safety procedures in the workplace to prevent accidents.
physics	<i>n.</i> the science of matter and energy and their interactions
	(1) nuclear physics , (2) laws of physics
	He studied the physics of radiation.
phenomenon	 n. something that exists and can be perceptible, especially one that is not fully understood synonym: marvel, wonder, splendor
	(1) natural phenomenon , (2) historical phenomenon
	A rainbow is a natural phenomenon .
suppose	<i>v.</i> to think that something is likely to be actual or possible <i>synonym</i> : guess, assume, presume
	(1) suppose you're right, (2) suppose beforehand
	What do you suppose the culprit's motive was?
atom	 n. the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus synonym: particle, element, fraction

	 (1) oxygen atom, (2) neutral hydrogen atoms The outermost electron shell of an atom determines its chemical characteristics.
electron	<i>n.</i> a tiny particle with the negative electrical charge <i>synonym</i> : negatron
	(1) flow of electrons , (2) beam of electrons
	The outermost electron shell determines the chemical
	properties of an atom.
nucleus	 n. the central and most important part of something; (biology) a part of the cell containing DNA and RNA and responsible for growth and reproduction; (physics) the very dense central region of an atom synonym: core, heart, middle
	(1) form a nucleus , (2) the nucleus of a team
	DNA is stored in the nucleus of a cell.
hydrogen	<i>n.</i> the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
	(1) hydrogen gas, (2) heavy hydrogen
	The hydrogen and the oxygen react and then form water.
govern	 v. to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services synonym: control, rule, preside
	(1) a nation's right to govern , (2) govern a public enterprise
	The regulations governing medical malpractice claims are rigorous.
macroscopic	 adj. visible to the naked eye; relating to objects or phenomena that are large enough to be seen without the aid of a microscope or other magnifying tools synonym: large, visible, apparent
	(1) macroscopic observation, (2) macroscopic anatomy

The **macroscopic** view of the galaxy is simply breathtaking.

mechanics	 n. the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles synonym: kinematics, dynamics
	(1) mechanics equation, (2) mechanics of the game
	He studied mechanics in college and now works as an engineer.
quantum	 n. the smallest amount or unit of something, especially (electromagnetic) energy
	(1) probabilistic quantum theory, (2) laws of quantum mechanics
	Big techs are now eager to develop quantum computers.
illustration	 <i>n</i>. a picture or diagram in a book, magazine, or newspaper that is used to explain or decorate the text; the act or process of explaining something <i>synonym</i>: picture, diagram, explanation
	(1) educational illustration, (2) illustration artist
	The illustration in the book helped me understand the concept better.
experiment	 n. the scientific test conducted to observe what happens and gain new knowledge synonym: experimentation, investigation
	(1) experiment design, (2) series of experiments
	His experiments showed highly positive results.
physicist	<i>n.</i> a scientist who specializes in the field of physics
	(1) talented physicist, (2) theoretical physicist
	Einstein was an outstanding and famous physicist of the 20th century.
bomb	<i>n.</i> a weapon that explodes and is used to kill or injure people or to cause damage to something

	synonym: missile, explosive, ammunition
	(1) atomic bombs , (2) disarm the bomb
	The use of cluster bombs is strictly prohibited by
	international law.
lid	<i>n.</i> a removable or hinged cover for the top of a container <i>synonym</i> : cover, top, cap
	(1) container lid, (2) the lid of a box
	He opened the lid of the jar to reveal the contents inside.
explode	 v. to burst or break open violently and noisily; to cause something to burst or break open synonym: detonate, blast, rupture
	(1) explode in anger, (2) explode in popularity
	The old building exploded in a fiery inferno.
observation	 n. the act or activity of carefully examining or monitoring something or someone synonym: watching, notice, reflection
	(1) class observation day, (2) observation instrument
	In the hospital, she will remain under constant observation.
superposition	 a principle in physics that describes the combination or overlaying of two or more waves or states of matter; (of geology) the process by which layers of rock or sediment are deposited on top of one another over time synonym: overlay, overlap
	(1) quantum superposition, (2) superposition theorem
	The superposition of waves can result in either constructive
	or destructive interference.
mixture	 n. a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties synonym: blend, amalgam, concoction
	(1) mixture of emotions, (2) perfect mixture

The paint was a **mixture** of different pigments to achieve the desired color.

possibility	<i>n.</i> a chance that something may happen or be true <i>synonym</i> : chance, prospect, likelihood
	(1) possibility for growth, (2) possibility of a major earthquake
	The possibility of getting the disease will drastically increase.
orbit	 n. the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels synonym: path, course, trajectory
	(1) the orbit of the moon, (2) a planetary orbit
	The rocket engine is used to put the satellite into orbit .
probabilistic	 <i>adj.</i> characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks <i>synonym</i>: probable, statistical, likely
	(1) probabilistic model, (2) probabilistic approach
	In a probabilistic system, the outcome is uncertain and can
	vary based on chance.
pinpoint	 v. to locate or identify the exact position in space or time of something
	synonym: name, direct, identify
	(1) pinpoint the problem, (2) pinpoint signs of manipulation
	This radar quickly pinpoints the position of the enemy.
entanglement	 involvement in a complicated or difficult situation; a tangled mass
	synonym: snarl, tangle, knot
	(1) entanglement in conflict, (2) romantic entanglement

	The entanglement of the fishing net was making it difficult for the whales to swim.
outcome	<i>n.</i> the result or effect of an action, event, etc. <i>synonym</i> : result, consequence, effect
	(1) improved student outcomes, (2) a desirable outcomeThey awaited news of the outcome of the election.
vice	 <i>n.</i> wrongdoing or wicked behavior; (in the form of vice versa) with the order reversed; (as a prefix) someone with a job immediately below a particular person <i>synonym</i>: corruption, depravity, evil
	(1) virtue and vice, (2) vice-chair of the committeeCats hate dogs and vice versa.
erase	<i>v.</i> to remove something completely, especially by rubbing it <i>synonym</i> : wipe out, delete, obliterate
	(1) erase a memory, (2) erased the filesHe attempted to erase the misspelled word.
entangle	 v. to become twisted or knotted together, especially in a way that makes it difficult to separate them; to involve in something complicated or difficult to escape synonym: ensnare, entrap, involve
	(1) entangle in wires, (2) emotionally entangle
	The vines of the plant entangled themselves around the trellis.
mind-blowing	 adj. extremely impressive in a way that affects someone's mind or emotions synonym: amazing, incredible, shocking
	(1) mind-blowing discovery, (2) a mind-blowing horror story
	The mind-blowing effects of the psychedelic drug were unlike anything he had ever experienced.

opposition	<i>n.</i> the act of disagreeing or resisting; the state of strong disagreement		
	synonym: resistance, hostility, antagonism		
	(1) opposition campaign, (2) meet with opposition		
	The opposition party strongly disagreed with the		
	government's proposed legislation.		
universe	 everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy synonym: cosmos, macrocosm 		
	(1) theory of the universe , (2) expansion of the universe		
	The universe is about 13.8 billion years old.		
undetermined	 n. not yet resolved or concluded; not decided; indefinite; lacking clear limits or boundaries; (of mathematics) cannot be calculated because it is dependent on unknown factors synonym: uncertain, undecided, unresolved 		
	(1) fever of undetermined origin, (2) undetermined coefficient		
	The cause of the accident is undetermined at this time.		
communicate	 v. to share or exchange information with others by speaking, writing, moving your body, or using other signals 		
	synonym: convey, share, transmit		
	(1) communicate his anxieties to the psychiatrist,		
	(2) communicate well with my advisor		
	Dolphins use sound to communicate with each other.		
conspire	 v. to plan or plot together secretly, especially with an evil or unlawful purpose synonym: plot, scheme, collude 		
	(1) conspire his ruin, (2) conspire to corner the market		
	The group of friends conspired to pull a prank on their		
	teacher.		

<i>adj.</i> relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
synonym: conceptual, conjectural, ideal
(1) theoretical models, (2) theoretical physicist
Absolute zero is the lowest theoretical temperature.
 <i>n</i>. a meaningless word or phrase used to distract, deceive or confuse someone; a type of African ceremonial mask <i>synonym</i>: nonsense, gibberish, hocus-pocus
(1) mumbo-jumbo mystery, (2) science mumbo jumbo
The politician's speech was mumbo jumbo and needed to be clearer to the audience.
 an extremely large or heavy object; an African elephant that was exhibited in a circus in the late 19th century and early 20th century and became widely known as "Jumbo" synonym: elephantine, mammoth, giant
(1) jumbo jet, (2) jumbo shrimp
I need to buy a jumbo-sized bag of dog food for my large-breed puppy.
 v. to support or establish the truth or certainty of something previously believed or suspected to be the case synonym: affirm, verify, assure
(1) confirm the diagnosis, (2) confirm a transaction
Please write to confirm your reservation.
 <i>n</i>. a workplace for the conduct of scientific research; a laboratory <i>synonym</i>: workshop, laboratory, research chamber
(1) lab instrument, (2) medical lab
The Prime Minister will pay a courtesy visit to the Nobel laureate's lab .

atomic	<i>adj.</i> of or relating to atom (= the smallest component of an element)
	synonym: tiny, microscopic, nuclear
	(1) atomic nucleus, (2) atomic bomb
	Carbon has an atomic mass of 12.
particle	 a small piece of something; a word or piece of a term with grammatical function but little or no significance synonym: atom, grain, bit
	(1) charged particle , (2) particle energy
	We can calculate the position of the particles statistically.
spin	 v. to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented synonym: rotate, twirl, swirl
	(1) spin a top, (2) spin thread out of cotton
	The tornado is spinning across the countryside, destroying
	everything in its path.
indicate	 v. to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly synonym: hint, suggest, show
	(1) indicate a preference, (2) indicate an error
	The data indicates that the company's profits have steadily increased over the past quarter.
cryptography	 n. the study of the techniques and methods used for secure communication and information processing, particularly using codes and ciphers synonym: coding, steganography, encryption
	(1) asymmetric cryptography, (2) digital cryptography
	The software engineers developed a new cryptography
	algorithm to protect users' data.
spy	<i>n.</i> a person who is employed or trained to observe or gather information in secret, often for military or political

	purposes; a person who secretly or illegally gathers information about a private individual or organization synonym: agent, undercover operative
	(1) spy cameras, (2) digital spy tools
	The government recruited a spy to gather information on a suspected terrorist cell
compute	v. to make a mathematical calculation synonym: calculate
	(1) compute an average score, (2) compute the valueI tried to compute the efficiency of the investment.
crack	 v. to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking synonym: snap, burst, break
	(1) crack an eggshell, (2) a crack in a board
	He that would eat the kernel must crack the nut.
teleport	 v. to transport or transmit instantly from one location to another, typically using advanced technology or imagined supernatural powers synonym: beam, transport, transmit
	(1) teleport objects through space, (2) teleport to any location in the world
	The magician seemed to teleport instantly from one side of the stage to the other.
progression	 n. the act or process of changing to the next stage or phase or moving forward synonym: advancement, development, evolution
	(1) progression of civilization, (2) progression of diseaseThe company has made great strides in its progressiontoward sustainability.

galaxy

n. an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity *synonym*: star cluster, nebula, star system
(1) elliptic galaxy, (2) a galaxy of famous actors
The Milky Way galaxy has numerous water-bearing planets.

Session 2: Spelling

1.	virtue and ve	n.	wrongdoing or wicked behavior; (in the form of vice versa) with the order reversed; (as a prefix) someone with a job immediately below a particular person
2.	full of w_t	n.	the ability to say or write things or ideas in a clever and humorous way
3.	oppon campaign	n.	the act of disagreeing or resisting; the state of strong disagreement
4.	prt the future	v.	to state beforehand that something will happen in the future, mainly based on knowledge or experience
5.	a crk in a board	v.	to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
6.	ve-chair of the committee	n.	wrongdoing or wicked behavior; (in the form of vice versa) with the order reversed; (as a prefix) someone with a job immediately below a particular person
7.	science muo jumbo	n.	a meaningless word or phrase used to distract, deceive or confuse someone; a type of African ceremonial mask
8.	fever of undned origin	n.	not yet resolved or concluded; not decided; indefinite; lacking clear limits or boundaries; (of mathematics) cannot be calculated because it is dependent on unknown factors

ANSWERS: 1. vice, 2. wit, 3. opposition, 4. predict, 5. crack, 6. vice, 7. mumbo, 8. undetermined

9. obson instrument		e act or activity of carefully examining monitoring something or someone
10. tert to any location in the world	or ac	transport or transmit instantly from ne location to another, typically using dvanced technology or imagined upernatural powers
11. crk an eggshell	div lin	break or cause to break without viding into separate parts; (noun) a ne on the surface of something along hich it has separated without breaking
12. sn thread out of cotton	ca	cause something to rotate rapidly; to ause someone to feel dizzy or soriented
13. exe in anger	nc	burst or break open violently and bisily; to cause something to burst or reak open
14. theal models	up fo	elating to the concepts and principles oon which a particular topic is ounded, rather than practice and operience
15. theal physicist	up for	elating to the concepts and principles oon which a particular topic is ounded, rather than practice and operience
16. gon a public enterprise	cit re: or	legally control and direct a country, ty, group of people, etc. and be esponsible for introducing new laws, ganizing and maintaining public ervices
17. pale energy	pie	small piece of something; a word or ece of a term with grammatical nction but little or no significance

ANSWERS: 9. observation, 10. teleport, 11. crack, 12. spin, 13. explode, 14. theoretical, 15. theoretical, 16. govern, 17. particle

18. obe wildlife	 v. to watch or notice something carefully often to gather information or insights; to take note of something or someone to celebrate or commemorate a specia event or occasion
19. pint signs of manipulation	 v. to locate or identify the exact position space or time of something
20. improved student oues	<i>n.</i> the result or effect of an action, event, etc.
21. a desirable oue	<i>n.</i> the result or effect of an action, event, etc.
22. core to corner the market	 v. to plan or plot together secretly, especially with an evil or unlawful purpose
23. expnt design	<i>n.</i> the scientific test conducted to observ what happens and gain new knowledge
24. asymmetric cryphy	 n. the study of the techniques and methods used for secure communication and information processing, particularly using codes a ciphers
25. pint the problem	v. to locate or identify the exact position space or time of something
26. protic approach	<i>adj.</i> characterized by the influence of chance or probability; involving the us of statistical models or methods to estimate likelihoods or risks
27. mecs equation	 n. the branch of physics that deals with t study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles

ANSWERS: 18. observe, 19. pinpoint, 20. outcome, 21. outcome, 22. conspire, 23. experiment, 24. cryptography, 25. pinpoint, 26. probabilistic, 27. mechanics

28.	mecs of the game	n.	the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles
29.	heavy hyen	n.	the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
30.	macic anatomy	adj.	visible to the naked eye; relating to objects or phenomena that are large enough to be seen without the aid of a microscope or other magnifying tools
31.	atc nucleus	adj.	of or relating to atom (= the smallest component of an element)
32.	stht for two months	adj.	extending or moving in one direction without bending or curving; having no deviations
33.	sue you're right	v.	to think that something is likely to be actual or possible
34.	entent in conflict	n.	involvement in a complicated or difficult situation; a tangled mass
35.	posty for growth	n.	a chance that something may happen or be true
36.	macic observation	adj.	visible to the naked eye; relating to objects or phenomena that are large enough to be seen without the aid of a microscope or other magnifying tools
37.	atc bomb	adj.	of or relating to atom (= the smallest component of an element)

ANSWERS: 28. mechanics, 29. hydrogen, 30. macroscopic, 31. atomic, 32. straight, 33. suppose, 34. entanglement, 35. possibility, 36. macroscopic, 37. atomic

38. answer coss questions	adj.	too numerous to be counted or very many
39. muo-jumbo mystery	n.	a meaningless word or phrase used to distract, deceive or confuse someone; a type of African ceremonial mask
40. look upd	adv.	toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place
41. disarm the bb	n.	a weapon that explodes and is used to kill or injure people or to cause damage to something
42. a stht line	adj.	extending or moving in one direction without bending or curving; having no deviations
43. coe an average score	ν.	to make a mathematical calculation
44. perfect mie	n.	a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
45. protic model	adj.	characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
46. a nation's right to gon	v.	to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services

ANSWERS: 38. countless, 39. mumbo, 40. upward, 41. bomb, 42. straight, 43. compute, 44. mixture, 45. probabilistic, 46. govern

47. a mining horror story	adj.	extremely impressive in a way that affects someone's mind or emotions
48. talented phst	n.	a scientist who specializes in the field of physics
49. series of expnts	n.	the scientific test conducted to observe what happens and gain new knowledge
50. container I_d	n.	a removable or hinged cover for the top of a container
51. historical pheon	n.	something that exists and can be perceptible, especially one that is not fully understood
52. form a nus	n.	the central and most important part of something; (biology) a part of the cell containing DNA and RNA and responsible for growth and reproduction; (physics) the very dense central region of an atom
53. a gay of famous actors	n.	an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
54. mining discovery	adj.	extremely impressive in a way that affects someone's mind or emotions
55. educational illion	n.	a picture or diagram in a book, magazine, or newspaper that is used to explain or decorate the text; the act or process of explaining something
56. core his ruin	v.	to plan or plot together secretly, especially with an evil or unlawful purpose

ANSWERS: 47. mind-blowing, 48. physicist, 49. experiment, 50. lid, 51. phenomenon, 52. nucleus, 53. galaxy, 54. mind-blowing, 55. illustration, 56. conspire

57. class obson day	n.	the act or activity of carefully examining or monitoring something or someone
58. coss hours	adj.	too numerous to be counted or very many
59. comte his anxieties to the psychiatrist	v.	to share or exchange information with others by speaking, writing, moving your body, or using other signals
60. charged pale	n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance
61. atomic bbs	n.	a weapon that explodes and is used to kill or injure people or to cause damage to something
62. ered the files	ν.	to remove something completely, especially by rubbing it
63. comte well with my advisor	v.	to share or exchange information with others by speaking, writing, moving your body, or using other signals
64. digital s_y tools	n.	a person who is employed or trained to observe or gather information in secret, often for military or political purposes; a person who secretly or illegally gathers information about a private individual or organization
65. natural pheon	n.	something that exists and can be perceptible, especially one that is not fully understood
66. com the diagnosis	v.	to support or establish the truth or certainty of something previously believed or suspected to be the case

ANSWERS: 57. observation, 58. countless, 59. communicate, 60. particle, 61. bomb, 62. erase, 63. communicate, 64. spy, 65. phenomenon, 66. confirm

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67. I_b instrument	n.	a workplace for the conduct of scientific research; a laboratory
68. demonstrate an upd trend	adv.	toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place
69. proon of civilization	n.	the act or process of changing to the next stage or phase or moving forward
70. theoretical phst	n.	a scientist who specializes in the field of physics
71. tert objects through space	v.	to transport or transmit instantly from one location to another, typically using advanced technology or imagined supernatural powers
72. medical I_b	n.	a workplace for the conduct of scientific research; a laboratory
73. exe in popularity	v.	to burst or break open violently and noisily; to cause something to burst or break open
74. digital cryphy	n.	the study of the techniques and methods used for secure communication and information processing, particularly using codes and ciphers
75. obe a tradition	v.	to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion

ANSWERS: 67. lab, 68. upward, 69. progression, 70. physicist, 71. teleport, 72. lab, 73. explode, 74. cryptography, 75. observe

76. inte a preference	v.	to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
77. supion theorem	n.	a principle in physics that describes the combination or overlaying of two or more waves or states of matter; (of geology) the process by which layers of rock or sediment are deposited on top of one another over time
78. 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
79. nuclear phs	n.	the science of matter and energy and their interactions
80. juo jet	n.	an extremely large or heavy object; an African elephant that was exhibited in a circus in the late 19th century and early 20th century and became widely known as "Jumbo"
81. sn a top	v.	to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
82. the I_d of a box	n.	a removable or hinged cover for the top of a container
83. the w_t of man	n.	the ability to say or write things or ideas in a clever and humorous way
84. posty of a major earthquake	n.	a chance that something may happen or be true

ANSWERS: 76. indicate, 77. superposition, 78. atom, 79. physics, 80. jumbo, 81. spin, 82. lid, 83. wit, 84. possibility

85. the nus of a team	n.	the central and most important part of something; (biology) a part of the cell containing DNA and RNA and responsible for growth and reproduction; (physics) the very dense central region of an atom
86. a planetary ort	n.	the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels
87. meet with oppon	n.	the act of disagreeing or resisting; the state of strong disagreement
88. mie of emotions	n.	a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
89. undned coefficient	n.	not yet resolved or concluded; not decided; indefinite; lacking clear limits or boundaries; (of mathematics) cannot be calculated because it is dependent on unknown factors
90. quantum supion	n.	a principle in physics that describes the combination or overlaying of two or more waves or states of matter; (of geology) the process by which layers of rock or sediment are deposited on top of one another over time

ANSWERS: 85. nucleus, 86. orbit, 87. opposition, 88. mixture, 89. undetermined, 90. superposition

91. probabilistic qum theory	n.	the smallest amount or unit of something, especially (electromagnetic) energy
92. theory of the unse	n.	everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
93. enle in wires	v.	to become twisted or knotted together, especially in a way that makes it difficult to separate them; to involve in something complicated or difficult to escape
94. prt when she will arrive	v.	to state beforehand that something will happen in the future, mainly based on knowledge or experience
95. the ort of the moon	n.	the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels
96. laws of phs	n.	the science of matter and energy and their interactions
97. romantic entent	n.	involvement in a complicated or difficult situation; a tangled mass
98. emotionally enle	v.	to become twisted or knotted together, especially in a way that makes it difficult to separate them; to involve in something complicated or difficult to escape

ANSWERS: 91. quantum, 92. universe, 93. entangle, 94. predict, 95. orbit, 96. physics, 97. entanglement, 98. entangle

99. coe the value	v.	to make a mathematical calculation
100. s_y cameras	n.	a person who is employed or trained to observe or gather information in secret, often for military or political purposes; a person who secretly or illegally gathers information about a private individual or organization
101. expansion of the unse	n.	everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
102. sue beforehand	v.	to think that something is likely to be actual or possible
103. proon of disease	n.	the act or process of changing to the next stage or phase or moving forward
104. inte an error	v.	to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
105. illion artist	n.	a picture or diagram in a book, magazine, or newspaper that is used to explain or decorate the text; the act or process of explaining something
106. hyen gas	n.	the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
107. 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

ANSWERS: 99. compute, 100. spy, 101. universe, 102. suppose, 103. progression, 104. indicate, 105. illustration, 106. hydrogen, 107. atom

108. com a transaction	v.	to support or establish the truth or certainty of something previously believed or suspected to be the case
109. juo shrimp	n.	an extremely large or heavy object; an African elephant that was exhibited in a circus in the late 19th century and early 20th century and became widely known as "Jumbo"
110. elliptic gay	n.	an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
111. flow of elons	n.	a tiny particle with the negative electrical charge
112. beam of elons	n.	a tiny particle with the negative electrical charge
113. laws of qum mechanics	n.	the smallest amount or unit of something, especially (electromagnetic) energy
114. ere a memory	v.	to remove something completely, especially by rubbing it

ANSWERS: 108. confirm, 109. jumbo, 110. galaxy, 111. electron, 112. electron, 113. quantum, 114. erase

Session 3: Fill in the Blanks

- 1. This radar quickly ______ the position of the enemy.
- v. to locate or identify the exact position in space or time of something
- 2. The use of cluster _____ is strictly prohibited by international law.
 - *n.* a weapon that explodes and is used to kill or injure people or to cause damage to something
- 3. A rainbow is a natural _____.
- *n.* something that exists and can be perceptible, especially one that is not fully understood
- 4. He attempted to _____ the misspelled word.
- v. to remove something completely, especially by rubbing it
- 5. He studied the _____ of radiation.
- *n.* the science of matter and energy and their interactions
- 6. 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
- 7. He studied ______ in college and now works as an engineer.
- *n.* the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles
- 8. The ______ in the book helped me understand the concept better.
- *n.* a picture or diagram in a book, magazine, or newspaper that is used to explain or decorate the text; the act or process of explaining something

ANSWERS: 1. pinpoints, 2. bombs, 3. phenomenon, 4. erase, 5. physics, 6. hydrogen, 7. mechanics, 8. illustration

- 9. The vines of the plant ______ themselves around the trellis.
 - v. to become twisted or knotted together, especially in a way that makes it difficult to separate them; to involve in something complicated or difficult to escape
- 10. He opened the ____ of the jar to reveal the contents inside.
- *n.* a removable or hinged cover for the top of a container
- 11. It's notoriously challenging to _____ birth rates.
- v. to state beforehand that something will happen in the future, mainly based on knowledge or experience
- 12. Cats hate dogs and _____ versa.
- *n.* wrongdoing or wicked behavior; (in the form of vice versa) with the order reversed; (as a prefix) someone with a job immediately below a particular person
- 13. I tried to ______ the efficiency of the investment.
- *v.* to make a mathematical calculation
- 14. There are _____ methods for dealing with stress.
- adj. too numerous to be counted or very many
- 15. His ______ showed highly positive results.
- *n.* the scientific test conducted to observe what happens and gain new knowledge
- 16. We can calculate the position of the ______ statistically.
- *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance

ANSWERS: 9. entangled, 10. lid, 11. predict, 12. vice, 13. compute, 14. countless, 15. experiments, 16. particles

- 17. The old building _____ in a fiery inferno.
- v. to burst or break open violently and noisily; to cause something to burst or break open
- 18. He was sick for five _____ days.
- *adj.* extending or moving in one direction without bending or curving; having no deviations
- 19. Dolphins use sound to ______ with each other.
 - v. to share or exchange information with others by speaking, writing, moving your body, or using other signals
- 20. The Milky Way _____ has numerous water-bearing planets.
 - *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
- 21. The company has made great strides in its ______ toward sustainability.
- *n.* the act or process of changing to the next stage or phase or moving forward
- 22. He has the ____ to keep talking about this topic.
- *n.* the ability to say or write things or ideas in a clever and humorous way
- 23. Carbon has an _____ mass of 12.
- *adj.* of or relating to atom (= the smallest component of an element)
- 24. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
- *n.* a workplace for the conduct of scientific research; a laboratory
- 25. The ______ party strongly disagreed with the government's proposed legislation.
- *n.* the act of disagreeing or resisting; the state of strong disagreement

ANSWERS: 17. exploded, 18. straight, 19. communicate, 20. galaxy, 21. progression, 22. wit, 23. atomic, 24. lab, 25. opposition

- 26. The regulations ______ medical malpractice claims are rigorous.
 - v. to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services
- 27. The company adjusted the revenue _____.
- *adv.* toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place
- 28. They awaited news of the _____ of the election.
 - *n.* the result or effect of an action, event, etc.
- 29. DNA is stored in the _____ of a cell.
 - *n.* the central and most important part of something; (biology) a part of the cell containing DNA and RNA and responsible for growth and reproduction; (physics) the very dense central region of an atom
- 30. The outermost ______ shell determines the chemical properties of an atom.
- *n.* a tiny particle with the negative electrical charge
- 31. In the hospital, she will remain under constant _____.
- *n.* the act or activity of carefully examining or monitoring something or someone
- 32. In a ______ system, the outcome is uncertain and can vary based on chance.
- *adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
- 33. I need to buy a _____ bag of dog food for my large-breed puppy.
 - *n.* an extremely large or heavy object; an African elephant that was exhibited in a circus in the late 19th century and early 20th century and became widely known as "Jumbo"

ANSWERS: 26. governing, 27. upward, 28. outcome, 29. nucleus, 30. electron, 31. observation, 32. probabilistic, 33. jumbo-sized

- 34. Einstein was an outstanding and famous ______ of the 20th century.
 - *n.* a scientist who specializes in the field of physics
- 35. The ______ of the fishing net was making it difficult for the whales to swim.
- *n.* involvement in a complicated or difficult situation; a tangled mass
- 36. He that would eat the kernel must _____ the nut.
- v. to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
- 37. Big techs are now eager to develop _____ computers.
- *n.* the smallest amount or unit of something, especially (electromagnetic) energy
- 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. The cause of the accident is ______ at this time.
- *n.* not yet resolved or concluded; not decided; indefinite; lacking clear limits or boundaries; (of mathematics) cannot be calculated because it is dependent on unknown factors
- 40. What do you ______ the culprit's motive was?
- *v.* to think that something is likely to be actual or possible
- 41. The government recruited a _____ to gather information on a suspected terrorist cell
 - *n.* a person who is employed or trained to observe or gather information in secret, often for military or political purposes; a person who secretly or illegally gathers information about a private individual or organization

ANSWERS: 34. physicist, 35. entanglement, 36. crack, 37. quantum, 38. atom, 39. undetermined, 40. suppose, 41. spy

- 42. Absolute zero is the lowest ______ temperature.
 - *adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
- 43. The data ______ that the company's profits have steadily increased over the past quarter.
- v. to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
- 44. The ______ of getting the disease will drastically increase.
 - *n.* a chance that something may happen or be true
- 45. The rocket engine is used to put the satellite into _____.
 - *n*. the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels
- 46. The politician's speech was _____ jumbo and needed to be clearer to the audience.
- *n.* a meaningless word or phrase used to distract, deceive or confuse someone; a type of African ceremonial mask
- 47. The paint was a ______ of different pigments to achieve the desired color.
- *n.* a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
- 48. The ______ is about 13.8 billion years old.
- *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

ANSWERS: 42. theoretical, 43. indicates, 44. possibility, 45. orbit, 46. mumbo, 47. mixture, 48. universe

- 49. The software engineers developed a new ______ algorithm to protect users' data.
- *n.* the study of the techniques and methods used for secure communication and information processing, particularly using codes and ciphers
- 50. The tornado is ______ across the countryside, destroying everything in its path.
 - *v.* to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
- 51. It is important to ______ safety procedures in the workplace to prevent accidents.
- v. to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
- 52. The ______ of waves can result in either constructive or destructive interference.
- *n.* a principle in physics that describes the combination or overlaying of two or more waves or states of matter; (of geology) the process by which layers of rock or sediment are deposited on top of one another over time
- 53. The ______ view of the galaxy is simply breathtaking.
- *adj.* visible to the naked eye; relating to objects or phenomena that are large enough to be seen without the aid of a microscope or other magnifying tools
- 54. The group of friends ______ to pull a prank on their teacher.
 - v. to plan or plot together secretly, especially with an evil or unlawful purpose
- 55. Please write to _____ your reservation.
 - *v.* to support or establish the truth or certainty of something previously believed or suspected to be the case

ANSWERS: 49. cryptography, 50. spinning, 51. observe, 52. superposition, 53. macroscopic, 54. conspired, 55. confirm

- 56. The ______ effects of the psychedelic drug were unlike anything he had ever experienced.
 - adj. extremely impressive in a way that affects someone's mind or emotions
- 57. The magician seemed to ______ instantly from one side of the stage to the other.
 - v. to transport or transmit instantly from one location to another, typically using advanced technology or imagined supernatural powers

ANSWERS: 56. mind-blowing, 57. teleport