Englist.me

Vocabulary Builder Reference from...

Chris Anderson: How many universes are there? | TED Talk https://www.ted.com/talks/chris_anderson_how_many _universes_are_there



All Words

IMPORTANT

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Session 1: Word List

flee	 v. to leave by running away, especially out of fear or danger
	synonym: exit, escape, run away
	(1) flee their homes, (2) flee abroad
	It is a basic instinct to flee from a dangerous situation.
gaze	 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 synonym: stare, gawk, look
	(1) gaze steadily at his face, (2) gaze absently out a window The youngster was gazed at by the beast.
desert	<i>n.</i> arid land with little or no vegetation often covered with sand or rocks
	(1) desert basin, (2) oasis in the desert
	This region is predominantly desert .
vast	 adj. enormous in size, number, amount, or quantity synonym: expansive, extended, boundless (1) vast majority, (2) vast desert A vast audience viewed the broadcast.

scheme	<i>n.</i> an organized and often large-scale plan or arrangement for doing something
	synonym: strategy, blueprint, plan
	(1) a pilot scheme , (2) draw out a scheme
	They carefully executed the well-planned scheme they had
	prepared over the years.
pinprick	<i>n.</i> a very small hole in something, especially made by a pin or needle; a minor annoyance
	(1) a tiny pinprick , (2) feel a pinprick sensation
	He felt a pinprick of disgust.
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.
pale	<i>adj.</i> having skin that is very light colored; lacking in vitality or interest or effectiveness
	synonym: sallow, faint, ashen
	(1) a pale complexion, (2) pale pink
	She turned pale when she heard the news.
mist	 a cloud of very small drops of water collecting in the air just above the ground or water
	synonym: fog, murk, haze
	(1) mist in the morning, (2) fine mist
	The sun has risen, and the mist has faded.
stretch	 v. to make or be capable of making anything longer or broader without hurting or breaking synonym: lengthen, prolong, extend
	(1) stretch along the coast, (2) stretch a story
	Some herds have been observed to stretch hundreds of
	kilometers.

detectable	<i>adj.</i> capable of being discovered or identified <i>synonym</i> : perceptible, noticeable, observable
	(1) a barely detectable change, (2) detectable by the human ear
	The object is detectable at ultraviolet wavelengths.
telescope	n. a device like a tube in shape containing lenses used to magnify and observe distant objects
	(1) a binocular telescope , (2) look through a telescope
	This facility has the largest astronomical telescope in the country.
grain	 wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance synonym: seed, piece, cereal
	(1) a grain of sand, (2) flour made from grain
	Ordinary air purifiers cannot adequately remove pollen
	grains.
sand	 n. finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action synonym: grit, dust, powder
	(1) sand dunes, (2) sand castle
	The sand on the beach was warm and golden.
represent	 v. to speak, act, or be present on behalf of another person or group; to form or constitute synonym: depict, express, describe
	(1) represent by a diagram, (2) the characters that
	represent numbers
	We elected him to represent us at the international
	conference.
universe	<i>n.</i> 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.
holy	<i>adj.</i> of or related to a god, divine power, or a particular religion
	synonym: sacred, religious, divine
	(1) a holy man, (2) a holy shrine
	They gathered to hear the holy teachings of the guru.
hawk	 n. a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations
	synonym: militarist, jingo, aggressor
	(1) cast off a hawk , (2) congressional hawk
	That team signed a center forward who was a ball- hawk.
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.
imaginable	adj. capable of being imagined
	synonym: conceivable, plausible, possible
	(1) easily imaginable , (2) worst imaginable case
	This is the only imaginable strategy.
minuscule	adj. extremely small; tiny
	synonym: tiny, insignificant, microscopic
	(1) minuscule amount, (2) minuscule letters
	This ore emits minuscule quantities of radiation
fraction	 a small part or item forming a piece of a whole; the quotient of two rational numbers
	synonym: piece, part, fragment

	(1) a fractional share of the vote, (2) a numerator in a fraction
	He spent only a fraction of his earnings.
expand	 v. to increase or to make something greater in size, number, or importance synonym: extend, grow, boost
	(1) expand a lineup, (2) expand agricultural output
	They hope to expand their business worldwide.
accelerate	 v. to make something faster or earlier; to cause to develop or progress more quickly synonym: speed up, quicken, rev
	(1) accelerate a chemical reaction, (2) accelerate the car The government tried to accelerate the commercialization of this development.
pace	 n. the speed at which someone or something moves, or the rate at which something happens or changes synonym: gait, rate, speed
	(1) at your own pace , (2) the runner's pace
	The economy is growing at a supercharged pace .
separate	v. to force, take, or pull apart; mark as differentsynonym: disunite, isolate, ramify
	(1) separate video into chapter, (2) separate cream from milk
	We need to separate the aspect of his personality from the part of his competence when making an investment decision.
intimate	<i>adj.</i> having a very close friendship, personal <i>synonym</i> : close, tight, friendly
	(1) my intimate affairs, (2) intimate relationship
	He has an intimate knowledge of American history.

distant	 adj. far away in space, time, or where you are; far apart in relevance, relationship, or kinship synonym: far, isolated, remote
	(1) a distant memory, (2) distant ancestors
	The sun set over the crest of distant hills.
invisible	adj. impossible or nearly impossible to see
	synonym: hidden, imperceptible, unseen
	(1) an invisible asset, (2) invisible stars
	The phenomenon is invisible at optical wavelengths.
giant	<i>adj.</i> enormous; much bigger or more important than similar items usually are
	synonym: big, gigantic, huge
	(1) giant trees, (2) giant tech company
	The giant jets gradually dominate the world's airlines.
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.
proton	 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
	(1) proton decay, (2) proton conductivity
	The solar wind is composed almost entirely of electrons and

protons.

quark	<i>n</i> . a type of elementary particle and a fundamental constituent of matter that make up the heavier elementary particles, such as protons, neutrons, etc.; fresh unripened cheese of a smooth texture made from pasteurized milk, a starter, and rennet
	(1) quark physics, (2) the antiparticle of a quark
	The Big Bang theory states that quark-gluon plasma filled
	the entire universe before matter as we know it was created.
neutrino	<i>n.</i> a very small and electrically neutral particle with a very small mass that rarely reacts with other matter
	(1) neutrino capture, (2) sterile neutrinos
	This laboratory has a pool consisting of thousands of
	neutrino detectors.
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.
string	 <i>n</i>. long, thin material used for tying things together, composed of several twisted threads <i>synonym</i>: line, wire, rope
	(1) retie the string and make it strong, (2) tense piano strings
	She wore a string of pearls around her neck.
countless	<i>adj.</i> too numerous to be counted or very many <i>synonym</i> : innumerable, myriad, numerous
	(1) countless hours, (2) answer countless questions
	There are countless methods for dealing with stress.
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. a sudden intense burst of radiant energy; a momentary flash n. brightness synonym: sparkle, gleam, glimmer (1) a **flash** of lightning, (2) brilliant **flash** These heavy rains caused **flash** floods on several islands. one thousand millionth or billionth (= 0.000,000,001) of a nanosecond n. second (1) **nanosecond** response, (2) **nanosecond** laser pulse The processor performs calculations on the **nanosecond** timescale. adv. in spite of what has just been said or done; nevertheless nonetheless synonym: nevertheless, regardless, still (1) we are **nonetheless** confident, (2) love him nonetheless They each choose **nonetheless** to battle. combine to join or merge to form a single thing or group v. synonym: coalesce, cohere, blend (1) **combine** chemically with another substance, (2) **combine** augmented reality Hydrogen and oxygen **combine** to form water. **multiverse** a hypothetical space or realm consisting of multiple n. universes, of which our universe is just one of them (1) the **multiverse** hypothesis, (2) the concept of the multiverse The various universes within the **multiverse** are sometimes called parallel universes. dimension a measurable extent of a particular kind, such as width, n. height, or length synonym: extent, measurement, size

	(1) new dimension , (2) the crosswise dimension
	Overall dimensions are approximately 400x200mm.
feat	 n. a notable or impressive achievement, especially one that requires great skill or bravery synonym: achievement, accomplishment, exploit
	(1) intellectual feat, (2) feat accomplishment
	It is an incredible feat to climb Mount Everest, the highest mountain in the world.
imaginary	<i>adj.</i> existing only in someone's mind <i>synonym</i> : fictional, ideal, fantastical
	(1) imaginary number, (2) imaginary pregnancy
	Little children tend to have imaginary friends.
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.
observable	<i>adj.</i> that can be noticed or seen <i>synonym</i> : visible, perceptible, detectable
	(1) observable change, (2) experimentally observable
	Any theorem relies on both observable fact and assumption.
trillion	<i>n.</i> the number 1,000,000,000,000; a million million
	(1) trillion cubic feet, (2) many trillions of dollars
	One light year is nearly 6 trillion miles.
infinity	 n. the state or quality of having no end or limit; (mathematics) a number greater than any natural number
	synonym: endlessness, boundlessness, continuity
	(1) the infinity of the universe, (2) negative infinity
	That investor saw an infinity of possibilities in this company.

continuum	 a series of similar items in which no part or portion is distinct or distinguishable from adjacent parts
	synonym: continuation, continuity
	(1) a space-time continuum , (2) the continuum of events
	Our life is a continuum of experience in which events pass
	from the future through the present to the past.
infinite	adj. unlimited or very great; impossible to measure
	synonym: boundless, countless, limitless
	(1) infinite appetite, (2) infinite in supply
	The battle had an infinite impact on the nation.
vary	<i>v.</i> to become different in terms of size, shape, etc. <i>synonym</i> : alter, contrast, differ
	(1) vary according to the age, (2) vary directly with the price
	Maximum heart rates vary a lot for each individual.
brain	<i>n.</i> the organ inside the head that is responsible for one's movement, thought, memory, and feeling
	synonym: intellect, mind, encephalon
	(1) basic brain function, (2) permanent brain damage
	X-rays revealed a small tumor in his brain .
quantum	 n. the smallest amount or unit of something, especially (electromagnetic) energy
	 probabilistic quantum theory, (2) laws of quantum mechanics
	Big techs are now eager to develop quantum computers.
wrinkle	 a small line or fold in something, especially fabric or the skin of the face; a minor difficulty synonym: crinkle, fold, crumple
	(1) a fine wrinkle on a fabric, (2) a facial wrinkle
	This suit is made of wrinkle-proof material.

doubt	 n. a feeling of being uncertain about something, especially about how good or accurate it is synonym: distrust, suspect, mistrust
	(1) dispel doubts , (2) no doubt about the news
	Doubt is the start, not the end, of intelligence.
interpret	 v. to explain or assign the meaning of information, actions, etc.
	synonym: decode, decipher, analyze
	(1) interpret a graph, (2) interpret the question
	Different people might interpret this news differently.
baffle	 v. to bewilder or perplex someone completely and to be unable to understand or explain something synonym: perplex, astound, hinder
	(1) baffle his plan, (2) baffle outside noises
	The paradox baffled most philosophers.
parallel	<i>adj.</i> being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
	synonym: aligned, side-by-side, similar
	(1) a parallel case, (2) parallel processing
	He walked a road parallel to the railroad.
spawn	 v. to lay eggs or to produce offspring; to cause something to develop
	synonym: beget, breed, generate
	(1) spawn in spring, (2) spawn a new concept
	The salmon swims upstream to spawn in the place they were released.
graduate	 n. a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree synonym: alumna, alum, grad
	(1) graduate degree program, (2) honor graduate
	() graduate degree program, (2) nonor graduate

Many employers hire **graduate** trainees to train as managers.

hogwash	 <i>n</i>. an idea, behavior, argument, etc., that you think is stupid and unacceptable <i>synonym</i>: nonsense, bunk, ludicrousness (1) complete hogwash, (2) hogwash of quiet diplomacy
	This media has long been criticized for spreading paranoid hogwash .
philosophy	 n. the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind synonym: doctrine, attitude, creed
	(1) philosophy of education, (2) western philosophy
	Ethics is a branch of philosophy .
mystic	<i>adj.</i> having spiritual powers or qualities that are beyond ordinary understanding; (noun) someone who believes in the existence of realities beyond human comprehension
	synonym: secret, mystical, supernatural
	(1) mystic teaching, (2) medieval mystic
	He is interested in the mystic rites of that religion.
argue	 v. to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others synonym: debate, dispute, quarrel
	(1) argue a case, (2) argue passionately
	The couple began to argue over which restaurant to go to for dinner.
illusion	 <i>n</i>. a false idea or belief, especially about somebody or about a situation <i>synonym</i>: delusion, fallacy, magic trick
	(1) optical illusion, (2) the illusion of being in the forestHe could no longer tell the difference between illusion and reality.

undergo	 v. to go through something unpleasant or that involves a change synonym: experience, suffer, endure (1) undergo surgery, (2) undergo a decrease
	The train has to undergo rigorous safety checks.
	The train has to undergo hydrods safety checks.
paradigm	<i>n.</i> a standard or typical example of something; a pattern or model
	synonym: example, standard, epitome
	 (1) major paradigm shift, (2) cultural paradigm He postulated a completely different paradigm to explain all these phenomena.
shift	 <i>n</i>. a slight transition in position, direction, or trend <i>synonym</i>: transition, change, modification (1) Doppler shift, (2) major paradigm shift Could you help me shift some furniture?

Session 2: Spelling

1.	accte a chemical reaction	ν.	to make something faster or earlier; to cause to develop or progress more quickly
2.	nannd response	n.	one thousand millionth or billionth (= 0.000,000,001) of a second
3.	inte in supply	adj.	unlimited or very great; impossible to measure
4.	medieval myc	adj.	having spiritual powers or qualities that are beyond ordinary understanding; (noun) someone who believes in the existence of realities beyond human comprehension
5.	feel a pick sensation	n.	a very small hole in something, especially made by a pin or needle; a minor annoyance
6.	obsle change	adj.	that can be noticed or seen
7.	we are nonss confident	adv.	in spite of what has just been said or done; nevertheless
8.	ft accomplishment	n.	a notable or impressive achievement, especially one that requires great skill or bravery
9.	myc teaching	adj.	having spiritual powers or qualities that are beyond ordinary understanding; (noun) someone who believes in the existence of realities beyond human comprehension

ANSWERS: 1. accelerate, 2. nanosecond, 3. infinite, 4. mystic, 5. pinprick, 6. observable, 7. nonetheless, 8. feat, 9. mystic

10. laws of phs	n.	the science of matter and energy and their interactions
11. a tiny pick	n.	a very small hole in something, especially made by a pin or needle; a minor annoyance
12. ge steadily at his face	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
13. at your own pe	n.	the speed at which someone or something moves, or the rate at which something happens or changes
14. love him nonss	adv.	in spite of what has just been said or done; nevertheless
15. spn in spring	v.	to lay eggs or to produce offspring; to cause something to develop
16. detle by the human ear	adj.	capable of being discovered or identified
17. uno a decrease	v.	to go through something unpleasant or that involves a change
18. bae outside noises	ν.	to bewilder or perplex someone completely and to be unable to understand or explain something
19. negative inty	n.	the state or quality of having no end or limit; (mathematics) a number greater than any natural number
20. basic brn function	n.	the organ inside the head that is responsible for one's movement, thought, memory, and feeling

ANSWERS: 10. physics, 11. pinprick, 12. gaze, 13. pace, 14. nonetheless, 15. spawn, 16. detectable, 17. undergo, 18. baffle, 19. infinity, 20. brain

21. exd a lineup	v.	to increase or to make something greater in size, number, or importance
22. talented phst	n.	a scientist who specializes in the field of physics
23. draw out a sce	n.	an organized and often large-scale plan or arrangement for doing something
24. 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
25. a grn of sand	n.	wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
26. a fine wre on a fabric	n.	a small line or fold in something, especially fabric or the skin of the face; a minor difficulty
27. permanent brn damage	n.	the organ inside the head that is responsible for one's movement, thought, memory, and feeling
28. beam of elons	n.	a tiny particle with the negative electrical charge
29. my inte affairs	adj.	having a very close friendship, personal
30. tron cubic feet	n.	the number 1,000,000,000,000; a million million
31. dit ancestors	adj.	far away in space, time, or where you are; far apart in relevance, relationship, or kinship
32. a numerator in a fron	n.	a small part or item forming a piece of a whole; the quotient of two rational numbers

ANSWERS: 21. expand, 22. physicist, 23. scheme, 24. atom, 25. grain, 26. wrinkle, 27. brain, 28. electron, 29. intimate, 30. trillion, 31. distant, 32. fraction

33. coe chemically with another	ν.	to join or merge to form a single thing or
substance		group
34. honor grte	n.	a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
35. hoh of quiet diplomacy	n.	an idea, behavior, argument, etc., that you think is stupid and unacceptable
36. experimentally obsle	adj.	that can be noticed or seen
37. the crosswise dion	n.	a measurable extent of a particular kind, such as width, height, or length
38. laws of qum mechanics	n.	the smallest amount or unit of something, especially (electromagnetic) energy
39. are passionately	v.	to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
40. coe augmented reality	v.	to join or merge to form a single thing or group
41. sd castle	n.	finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action
42. git trees	adj.	enormous; much bigger or more important than similar items usually are

ANSWERS: 33. combine, 34. graduate, 35. hogwash, 36. observable, 37. dimension, 38. quantum, 39. argue, 40. combine, 41. sand, 42. giant

43. Doppler sht	n.	a slight transition in position, direction, or trend
44. an inle asset	adj.	impossible or nearly impossible to see
45. vt majority	adj.	enormous in size, number, amount, or quantity
46. oasis in the det	n.	arid land with little or no vegetation often covered with sand or rocks
47. inle stars	adj.	impossible or nearly impossible to see
48. no dot about the news	n.	a feeling of being uncertain about something, especially about how good or accurate it is
49. exd agricultural output	v.	to increase or to make something greater in size, number, or importance
50. a pael case	adj.	being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
51. nannd laser pulse	n.	one thousand millionth or billionth (= 0.000,000,001) of a second
52. look through a tepe	n.	a device like a tube in shape containing lenses used to magnify and observe distant objects
53. the characters that rent numbers	v.	to speak, act, or be present on behalf of another person or group; to form or constitute
54. theoretical phst	n.	a scientist who specializes in the field of physics
55. brilliant flh	n.	a sudden intense burst of radiant energy; a momentary brightness

ANSWERS: 43. shift, 44. invisible, 45. vast, 46. desert, 47. invisible, 48. doubt, 49. expand, 50. parallel, 51. nanosecond, 52. telescope, 53. represent, 54. physicist, 55. flash

56. sete video into chapter	v.	to force, take, or pull apart; mark as different
57. the coum of events	n.	a series of similar items in which no part or portion is distinct or distinguishable from adjacent parts
58. mt in the morning	n.	a cloud of very small drops of water collecting in the air just above the ground or water
59. are a case	v.	to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
60. a dit memory	adj.	far away in space, time, or where you are; far apart in relevance, relationship, or kinship
61. probabilistic qum theory	n.	the smallest amount or unit of something, especially (electromagnetic) energy
62. the concept of the mulse	n.	a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
63. a hy man	adj.	of or related to a god, divine power, or a particular religion
64. sterile nenos	n.	a very small and electrically neutral particle with a very small mass that rarely reacts with other matter
65. spn a new concept	v.	to lay eggs or to produce offspring; to cause something to develop
66. prt when she will arrive	v.	to state beforehand that something will happen in the future, mainly based on knowledge or experience

ANSWERS: 56. separate, 57. continuum, 58. mist, 59. argue, 60. distant, 61. quantum, 62. multiverse, 63. holy, 64. neutrino, 65. spawn, 66. predict

67. a hy shrine	adj.	of or related to a god, divine power, or a particular religion
68. prt the future	v.	to state beforehand that something will happen in the future, mainly based on knowledge or experience
69. vy according to the age	v.	to become different in terms of size, shape, etc.
70. mile amount	adj.	extremely small; tiny
71. v_y directly with the price	ν.	to become different in terms of size, shape, etc.
72. fe abroad	v.	to leave by running away, especially out of fear or danger
73. 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
74. cultural pagm	n.	a standard or typical example of something; a pattern or model
75. dispel dots	n.	a feeling of being uncertain about something, especially about how good or accurate it is
76. inte relationship	adj.	having a very close friendship, personal
77. charged pale	n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance
78. elliptic gay	n.	an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

ANSWERS: 67. holy, 68. predict, 69. vary, 70. minuscule, 71. vary, 72. flee, 73. gaze, 74. paradigm, 75. doubt, 76. intimate, 77. particle, 78. galaxy

79. accte the car	 v. to make something faster or earlier; t cause to develop or progress more quickly 	to
80. git tech company	<i>adj.</i> enormous; much bigger or more important than similar items usually a	are
81. sth along the coast	 v. to make or be capable of making anything longer or broader without hurting or breaking 	
82. quk physics	n. a type of elementary particle and a fundamental constituent of matter that make up the heavier elementary particles, such as protons, neutrons, etc.; fresh unripened cheese of a smooth texture made from pasteurize milk, a starter, and rennet	
83. major pagm shift	<i>n.</i> a standard or typical example of something; a pattern or model	
84. retie the stg and make it strong	 n. long, thin material used for tying thing together, composed of several twiste threads 	-
85. imry pregnancy	adj. existing only in someone's mind	
86. optical ilon	<i>n.</i> a false idea or belief, especially about somebody or about a situation	ut
87. answer coss questions	<i>adj.</i> too numerous to be counted or very many	
88. western phihy	<i>n.</i> the study of general and fundamenta questions, such as those about existence, reason, knowledge, values mind	

ANSWERS: 79. accelerate, 80. giant, 81. stretch, 82. quark, 83. paradigm, 84. string, 85. imaginary, 86. illusion, 87. countless, 88. philosophy

89.	congressional hk	n.	a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations
90.	the runner's pe	n.	the speed at which someone or something moves, or the rate at which something happens or changes
91.	tense piano stgs	n.	long, thin material used for tying things together, composed of several twisted threads
92.	a binocular tepe	n.	a device like a tube in shape containing lenses used to magnify and observe distant objects
93.	easily imale	adj.	capable of being imagined
94.	vt desert	adj.	enormous in size, number, amount, or quantity
95.	pe pink	adj.	having skin that is very light colored; lacking in vitality or interest or effectiveness
96.	fe their homes	<i>v</i> .	to leave by running away, especially out of fear or danger
97.	a flh of lightning	n.	a sudden intense burst of radiant energy; a momentary brightness
98.	pale energy	n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance
99.	flow of elons	n.	a tiny particle with the negative electrical charge

ANSWERS: 89. hawk, 90. pace, 91. string, 92. telescope, 93. imaginable, 94. vast, 95. pale, 96. flee, 97. flash, 98. particle, 99. electron

100. rent by a diagram	v.	to speak, act, or be present on behalf of another person or group; to form or constitute
101. flour made from grn	n.	wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
102. det basin	n.	arid land with little or no vegetation often covered with sand or rocks
103. 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
104. a fronal share of the vote	n.	a small part or item forming a piece of a whole; the quotient of two rational numbers
105. sd dunes	n.	finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action
106. worst imale case	adj.	capable of being imagined
107. sth a story	ν.	to make or be capable of making anything longer or broader without hurting or breaking
108. a facial wre	n.	a small line or fold in something, especially fabric or the skin of the face; a minor difficulty
109. sete cream from milk	<i>v</i> .	to force, take, or pull apart; mark as different

ANSWERS: 100. represent, 101. grain, 102. desert, 103. atom, 104. fraction, 105. sand, 106. imaginable, 107. stretch, 108. wrinkle, 109. separate

110. theory of the unse	n.	everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
111. 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
112. bae his plan	v.	to bewilder or perplex someone completely and to be unable to understand or explain something
113. a space-time coum	n.	a series of similar items in which no part or portion is distinct or distinguishable from adjacent parts
114. nuclear phs	n.	the science of matter and energy and their interactions
115. mile letters	adj.	extremely small; tiny
116. 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
117. grte degree program	n.	a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
118. the inty of the universe	n.	the state or quality of having no end or limit; (mathematics) a number greater than any natural number
119. intellectual ft	n.	a notable or impressive achievement, especially one that requires great skill or bravery

ANSWERS: 110. universe, 111. proton, 112. baffle, 113. continuum, 114. physics, 115. minuscule, 116. proton, 117. graduate, 118. infinity, 119. feat

120. inet a graph	ν.	to explain or assign the meaning of information, actions, etc.
121. expansion of the unse	n.	everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
122. inte appetite	adj.	unlimited or very great; impossible to measure
123. complete hoh	n.	an idea, behavior, argument, etc., that you think is stupid and unacceptable
124. neno capture	n.	a very small and electrically neutral particle with a very small mass that rarely reacts with other matter
125. a pe complexion	adj.	having skin that is very light colored; lacking in vitality or interest or effectiveness
126. a pilot sce	n.	an organized and often large-scale plan or arrangement for doing something
127. a gay of famous actors	n.	an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
128. major paradigm sht	n.	a slight transition in position, direction, or trend
129. the ilon of being in the forest	n.	a false idea or belief, especially about somebody or about a situation
130. the mulse hypothesis	n.	a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
131. inet the question	ν.	to explain or assign the meaning of information, actions, etc.

ANSWERS: 120. interpret, 121. universe, 122. infinite, 123. hogwash, 124. neutrino, 125. pale, 126. scheme, 127. galaxy, 128. shift, 129. illusion, 130. multiverse, 131. interpret

132. a barely detle change	<i>adj.</i> capable of being discovered or identified
133. pael processing	<i>adj.</i> being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
134. the antiparticle of a quk	<i>n</i> . a type of elementary particle and a fundamental constituent of matter that make up the heavier elementary particles, such as protons, neutrons, etc.; fresh unripened cheese of a smooth texture made from pasteurized milk, a starter, and rennet
135. cast off a hk	 a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations
136. new dion	<i>n.</i> a measurable extent of a particular kind such as width, height, or length
137. fine mt	 a cloud of very small drops of water collecting in the air just above the ground or water
138. imry number	adj. existing only in someone's mind
139. many trons of dollars	<i>n.</i> the number 1,000,000,000,000; a million million
140. uno surgery	 v. to go through something unpleasant or that involves a change
141. phihy of education	<i>n.</i> the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind

ANSWERS: 132. detectable, 133. parallel, 134. quark, 135. hawk, 136. dimension, 137. mist, 138. imaginary, 139. trillion, 140. undergo, 141. philosophy

142. co____ss hours

adj. too numerous to be counted or very many

ANSWERS: 142. countless

Session 3: Fill in the Blanks

- 1. She wore a _____ of pearls around her neck.
- *n*. long, thin material used for tying things together, composed of several twisted threads
- 2. Different people might ______ this news differently.
- *v.* to explain or assign the meaning of information, actions, etc.
- 3. He has an ______ knowledge of American history.
- *adj.* having a very close friendship, personal
- 4. Some herds have been observed to _____ hundreds of kilometers.
- v. to make or be capable of making anything longer or broader without hurting or breaking
- 5. The train has to ______ rigorous safety checks.
- *v.* to go through something unpleasant or that involves a change
- 6. They gathered to hear the _____ teachings of the guru.
- adj. of or related to a god, divine power, or a particular religion
- 7. The battle had an _____ impact on the nation.
 - adj. unlimited or very great; impossible to measure
- 8. He is interested in the _____ rites of that religion.
- *adj.* having spiritual powers or qualities that are beyond ordinary understanding; (noun) someone who believes in the existence of realities beyond human comprehension

ANSWERS: 1. string, 2. interpret, 3. intimate, 4. stretch, 5. undergo, 6. holy, 7. infinite, 8. mystic

- 9. The phenomenon is ______ at optical wavelengths.
- *adj.* impossible or nearly impossible to see
- 10. 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
- 11. This suit is made of _____ material.
- *n.* a small line or fold in something, especially fabric or the skin of the face; a minor difficulty
- 12. He postulated a completely different ______ to explain all these phenomena.
- *n.* a standard or typical example of something; a pattern or model
- 13. Big techs are now eager to develop _____ computers.
- *n.* the smallest amount or unit of something, especially (electromagnetic) energy
- 14. Einstein was an outstanding and famous ______ of the 20th century.
- *n.* a scientist who specializes in the field of physics
- 15. It is a basic instinct to _____ from a dangerous situation.
- *v.* to leave by running away, especially out of fear or danger
- 16. 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
- 17. It's notoriously challenging to _____ birth rates.
- v. to state beforehand that something will happen in the future, mainly based on knowledge or experience

ANSWERS: 9. invisible, 10. universe, 11. wrinkle-proof, 12. paradigm, 13. quantum, 14. physicist, 15. flee, 16. atom, 17. predict

- 18. Many employers hire ______ trainees to train as managers.
- *n.* a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
- 19. This region is predominantly _____.
- *n.* arid land with little or no vegetation often covered with sand or rocks
- 20. He walked a road ______ to the railroad.
- *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
- 21. Hydrogen and oxygen _____ to form water.
- *v.* to join or merge to form a single thing or group
- 22. Maximum heart rates _____ a lot for each individual.
- *v.* to become different in terms of size, shape, etc.
- 23. _____ is the start, not the end, of intelligence.
- *n.* a feeling of being uncertain about something, especially about how good or accurate it is
- 24. Overall ______ are approximately 400x200mm.
- *n.* a measurable extent of a particular kind, such as width, height, or length
- 25. The object is ______ at ultraviolet wavelengths.
- adj. capable of being discovered or identified
- 26. The _____ jets gradually dominate the world's airlines.
- adj. enormous; much bigger or more important than similar items usually are

ANSWERS: 18. graduate, 19. desert, 20. parallel, 21. combine, 22. vary, 23. Doubt, 24. dimensions, 25. detectable, 26. giant

- 27. This facility has the largest astronomical ______ in the country.
- *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
- 28. 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
- 29. Could you help me _____ some furniture?
- *n.* a slight transition in position, direction, or trend
- 30. He spent only a _____ of his earnings.
- *n.* a small part or item forming a piece of a whole; the quotient of two rational numbers
- 31. It is an incredible _____ to climb Mount Everest, the highest mountain in the world.
- *n.* a notable or impressive achievement, especially one that requires great skill or bravery
- 32. She turned _____ when she heard the news.
- *adj.* having skin that is very light colored; lacking in vitality or interest or effectiveness
- 33. The outermost ______ shell determines the chemical properties of an atom.
- *n.* a tiny particle with the negative electrical charge
- 34. That team signed a center forward who was a ball-____.
- *n.* a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations

ANSWERS: 27. telescope, 28. galaxy, 29. shift, 30. fraction, 31. feat, 32. pale, 33. electron, 34. hawk

- 35. They hope to _____ their business worldwide.
- *v.* to increase or to make something greater in size, number, or importance
- 36. The salmon swims upstream to _____ in the place they were released.
- *v.* to lay eggs or to produce offspring; to cause something to develop
- 37. The economy is growing at a supercharged _____.
 - *n.* the speed at which someone or something moves, or the rate at which something happens or changes
- 38. He studied the _____ of radiation.
- *n.* the science of matter and energy and their interactions
- 39. These heavy rains caused ______ floods on several islands.
- *n.* a sudden intense burst of radiant energy; a momentary brightness
- 40. Little children tend to have ______ friends.
- adj. existing only in someone's mind
- 41. The paradox _____ most philosophers.
- v. to bewilder or perplex someone completely and to be unable to understand or explain something
- 42. Any theorem relies on both ______ fact and assumption.
- *adj.* that can be noticed or seen
- 43. They carefully executed the well-planned ______ they had prepared over the years.
- *n.* an organized and often large-scale plan or arrangement for doing something

ANSWERS: 35. expand, 36. spawn, 37. pace, 38. physics, 39. flash, 40. imaginary, 41. baffled, 42. observable, 43. scheme

- 44. The _____ on the beach was warm and golden.
- *n.* finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action

45. They each choose ______ to battle.

adv. in spite of what has just been said or done; nevertheless

- 46. The government tried to ______ the commercialization of this development.
- v. to make something faster or earlier; to cause to develop or progress more quickly
- 47. 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
- 48. The processor performs calculations on the ______ timescale.
- *n.* one thousand millionth or billionth (= 0.000,000,001) of a second
- 49. 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
- 50. X-rays revealed a small tumor in his _____.
- *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
- 51. Our life is a ______ of experience in which events pass from the future through the present to the past.
- *n.* a series of similar items in which no part or portion is distinct or distinguishable from adjacent parts

ANSWERS: 44. sand, 45. nonetheless, 46. accelerate, 47. protons, 48. nanosecond, 49. particles, 50. brain, 51. continuum

- 52. The sun has risen, and the _____ has faded.
- *n.* a cloud of very small drops of water collecting in the air just above the ground or water
- 53. 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
- 54. Ethics is a branch of _____.
- *n.* the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind
- 55. He could no longer tell the difference between _____ and reality.
- *n.* a false idea or belief, especially about somebody or about a situation
- 56. The couple began to _____ over which restaurant to go to for dinner.
- *v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
- 57. That investor saw an ______ of possibilities in this company.
 - *n.* the state or quality of having no end or limit; (mathematics) a number greater than any natural number
- 58. This laboratory has a pool consisting of thousands of ______ detectors.
- *n.* a very small and electrically neutral particle with a very small mass that rarely reacts with other matter
- 59. Ordinary air purifiers cannot adequately remove pollen _____.
- *n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance

ANSWERS: 52. mist, 53. gazed, 54. philosophy, 55. illusion, 56. argue, 57. infinity, 58. neutrino, 59. grains

- 60. The sun set over the crest of _____ hills.
 - *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship
- 61. We need to ______ the aspect of his personality from the part of his competence when making an investment decision.
- v. to force, take, or pull apart; mark as different
- 62. One light year is nearly 6 _____ miles.
- *n.* the number 1,000,000,000; a million million
- 63. This is the only ______ strategy.
- adj. capable of being imagined
- 64. The various universes within the _____ are sometimes called parallel universes.
 - *n*. a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
- 65. There are _____ methods for dealing with stress.
- *adj.* too numerous to be counted or very many
- 66. The Big Bang theory states that _____ plasma filled the entire universe before matter as we know it was created.
 - *n.* a type of elementary particle and a fundamental constituent of matter that make up the heavier elementary particles, such as protons, neutrons, etc.; fresh unripened cheese of a smooth texture made from pasteurized milk, a starter, and rennet
- 67. We elected him to ______ us at the international conference.
- *v.* to speak, act, or be present on behalf of another person or group; to form or constitute

ANSWERS: 60. distant, 61. separate, 62. trillion, 63. imaginable, 64. multiverse, 65. countless, 66. quark-gluon, 67. represent

- 68. This ore emits _____ quantities of radiation
- *adj.* extremely small; tiny
- 69. This media has long been criticized for spreading paranoid ______.
- *n.* an idea, behavior, argument, etc., that you think is stupid and unacceptable
- 70. He felt a _____ of disgust.
- *n.* a very small hole in something, especially made by a pin or needle; a minor annoyance
- 71. A _____ audience viewed the broadcast.
- adj. enormous in size, number, amount, or quantity

ANSWERS: 68. minuscule, 69. hogwash, 70. pinprick, 71. vast