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Vocabulary Builder Reference from...

Matteo Fadel: Can you win a game of quantum foosball? | TED Talk https://www.ted.com/talks/matteo_fadel_can_you_win _a_game_of_quantum_foosball



All Words

IMPORTANT

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Session 1: Word List

particle

n. 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.

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.

arcade

n. a covered passageway or walkway, often lined with shops or restaurants; a series of arches supported by columns; a type of video game in which the player controls a character moving through a series of levels and obstacles

synonym: gallery, colonnade, passageway

(1) arcade games, (2) colonnaded arcade

The public **arcade** was filled with the sound of children laughing and playing games.

unwind

v. to relax and release tension, often by engaging in leisure activities or by simply resting; to reverse the winding or twisting of something

synonym: relax, de-stress, unroll

(1) unwind after work, (2) unwind on vacation

I like to **unwind** with a good book after a long day at work.

gleam

 to reflect light in a way that creates a shining or bright and attractive appearance; to become visible or apparent

synonym: glitter, shimmer, shine

(1) gleam in eyes, (2) gleam like honey

The diamond ring **gleamed** in the sunlight, catching everyone's eye.

insert

- v. to put something inside something else synonym: introduce, add, embed
- (1) insert coin, (2) insert a graphic

She **inserted** a new chapter into her manuscript.

fanfare

 a short, loud, and attention-grabbing burst of sound, often to announce or celebrate something special; a flourished or ostentatious display or demonstration

synonym: celebration, parade, ceremony

(1) fanfare announcement, (2) royal fanfare

The team arrived in a flurry of **fanfare** after winning the championship.

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.

norm

- n. something that is regarded as usual, typical, or standard synonym: criterion, mean, standard
- (1) **norm** of action, (2) cultural **norm**

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The systems we have developed has accepted as industry **norms**.

spinning

 the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn

synonym: whirling, rotating, spinning wheel

(1) **spinning** machine, (2) **spinning** wheel

She took a **spinning** class at the gym to improve her cardiovascular fitness.

lever

 a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily

synonym: lifter, crowbar, bar

(1) a gear change lever, (2) lever for reform

This initiative will be a **lever** for increasing company sales.

sink

v. to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else

synonym: descend, drop, plummet

(1) **sink** a lot of capital, (2) **sink** a buzzer-beater

The abandoned ship slowly began to **sink** into the murky waters of the harbor.

opponent

n. a person against whom you are playing or fighting in a game, competition, debate, etc.

synonym: adversary, competitor, enemy

(1) computer **opponent**, (2) death-penalty **opponent** He was attempting to confuse his **opponent**.

giant

adj. 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.

electron

- n. a tiny particle with the negative electrical chargesynonym: negatron
- (1) flow of **electrons**, (2) beam of **electrons**The outermost **electron** shell determines the chemical properties of an atom.

Newtonian

adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation

synonym: classical, physics, mechanics

(1) **Newtonian** physics, (2) **Newtonian** mechanics
The motion of planets can be described using **Newtonian** mechanics.

physics

- n. the science of matter and energy and their interactions
- (1) nuclear physics, (2) laws of physicsHe studied the physics of radiation.

movement

 a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

synonym: motion, progression, action

(1) a circular **movement**, (2) **movement** of troops

The **movement** of the dancers on stage was graceful and elegant.

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.

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.

minimize

v. to make something, especially something bad, small or less serious

synonym: diminish, mitigate, belittle

(1) **minimize** a loss, (2) way to **minimize** conflict I bought a gadget before my trip to help **minimize** stress during the flight.

influence

n. the ability to affect someone's or something's character, growth, or behavior, or the effect itself

synonym: power, leverage, effect

(1) **influence** a child's future, (2) **influence** the daily life
The former emperor had a particular **influence** even after he abdicated.

photon

 a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation

synonym: particle, quantum, light

(1) **photon** emission, (2) **photon** energy Infrared cameras detect **photons** in the infrared range of the electromagnetic spectrum.

molecule

 a group of two or more atoms held together by attractive forces known as chemical bonds

synonym: particle, element, atom

(1) small **molecules**, (2) **molecule** behavior The shape of the DNA **molecule** is a double helix.

vacuum

 a space empty of matter; a device or tool used for cleaning or removing debris by creating suction

synonym: void, emptiness, gap

(1) vacuum cleaner, (2) vacuum packing

Please use the **vacuum** to clean up the mess on the floor.

flash

a sudden intense burst of radiant energy; a momentary brightness

synonym: sparkle, gleam, glimmer

(1) a flash of lightning, (2) brilliant flash

These heavy rains caused **flash** floods on several islands.

collision

 an instance of two or more objects or entities crashing into each other, usually resulting in damage, impact, or conflict

synonym: crash, impact, smash

(1) **collision** detection, (2) come into **collision** with my friend

The **collision** of tectonic plates can result in new mountain ranges, such as the Himalayas or the Alps.

detect

v. to find or recognize something, especially something difficult to see, hear, etc.

synonym: catch, observe, notice

(1) **detect** a bad event, (2) **detect** smuggling across borders. The security camera has **detected** four intruders.

consequence

 the outcome of a particular action or event, especially relative to an individual

synonym: result, impact, outcome

(1) unintended **consequences**, (2) the **consequence** of an argument

These economic activities had disastrous environmental consequences.

uncertain

adj. not being sure of something; not being able to choose synonym: doubtful, skeptical, pending

(1) numerous **uncertain** factors, (2) take an **uncertain** attitude

She was **uncertain** about her friend's intentions.

principle

 a fundamental law or truth that explains or controls how something happens or works

synonym: rule, creed, code

(1) **principle** of treatment, (2) **principle** in business Efficiency isn't an essential **principle** here; fairness is.

velocity

 the rate of change of an object's position with respect to time, often measured in meters per second (m/s)

synonym: speed, rapidity, swiftness

(1) initial **velocity**, (2) high **velocity**

The **velocity** of the car was too fast for the road conditions.

vice

 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

synonym: corruption, depravity, evil

virtue and vice, (2) vice-chair of the committee
 Cats hate dogs and vice versa.

largely

adv. virtually entirely; to a large degree

synonym: mainly, chiefly, broadly

(1) **largely** accepted, (2) **largely** mitigate the issue Nevada is **largely** a desert state.

probable

adj. likely to happen or likely to be true

synonym: likely, possible, potential

(1) **probable** outcome, (2) **probable** cause of a fire It seems **probable** that he has forgotten our scheduled meeting.

distribute

v. to give something to a large number of individuals, or to spread or furnish something

synonym:

broadcast, disperse, hand out

(1) **distribute** wealth evenly, (2) **distribute** video content His estate was **distributed** to his sons.

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.

concentration

 the ability to focus all your time and energy on one thing without thinking about anything else.

synonym: attention, engagement, assiduity

(1) **concentration** of armaments, (2) his research area of **concentration**

This exam requires excellent **concentration** to pass.

opposition

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.

likelihood

 the probability or chance that something will happen or be the case

synonym: probability, chance, possibility

(1) **likelihood** of the success, (2) improve the **likelihood** of a cure

The **likelihood** of the project being completed on time is uncertain.

determinant

 a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

synonym: cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

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.

manipulate

v. to influence or control something or someone to your advantage, often in an unfair or dishonest way

synonym: control, exploit, abuse

- (1) **manipulate** figures, (2) vulnerable to **manipulate** Please tell me how to **manipulate** this computer.
- a long, thin, straight piece of wood, metal, or other material used for support, as a weapon, or for punishment

synonym: stick, wand, staff

(1) rod cell, (2) curtain rod

He used a fishing **rod** to catch the biggest fish of the day.

strength

rod

 the quality or state of being physically, or sometimes mentally, strong

synonym: resilience, power, muscles

(1) **strength** of the economy, (2) muscular **strength** Health and **strength** are, above all, gold.

precise

adj. sharply exact or accurate or delimited

synonym: accurate, exact, distinct

(1) **precise** analyses, (2) estimate **precise** costs

The content is **precise** and informative for me.

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.

construct

v. to build or create something; to assemble or combine different parts to form something whole

synonym: build, assemble, create

(1) construct a 3D image, (2) construct a dam

He **constructs** hypotheses that no mathematician has ever imagined before.

tunnel

 an underground or underwater passage, typically for trains or cars

synonym: passageway, underground passage

(1) tunnel construction work, (2) tunnel disease

The workers had to dig through solid rock to create the vehicular **tunnel** allowing the cars to pass through the mountain.

apparent

adj. able to see or understand easily or clearly

synonym: obvious, clear, conspicuous

(1) heir apparent, (2) apparent contradiction

This star is **apparent** to the naked eye.

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.

spit

- v. to eject saliva or other liquid from the mouth
- synonym: expectorate, saliva, spew
- (1) **spit** a bullet, (2) **spit** a mouthful of saliva

She tried to **spit** out the gum that she had been chewing.

evident

adj. apparent to the mind, senses, or judgment

synonym: apparent, noticeable, obvious

(1) evident to all, (2) plainly evident

With **evident** joy, he signed his name.

presence

- the fact or state that someone or something exists, occurs, or is present
- *synonym*: existence, actuality, fact
- (1) the evidence of the **presence**, (2) his majestic **presence**The path to a solid online **presence** necessitates a high technical ability.

obstacle

a thing that blocks one's way or prevents or hinders progress

synonym: hindrance, barrier, block

(1) an **obstacle** to progress, (2) **obstacle** avoidance The **obstacle** course was challenging but fun.

row

an arrangement of objects or people side by side in a line

synonym: line, sequence, layer

(1) criminal on death **row**, (2) a **row** of cherry trees He was the leader of the demonstrators and spoke out against the war in the front **row**.

miniature

adj. being on a very small scale

synonym: mini, scaled-down, pint-sized

(1) miniature camera, (2) miniature version

He did complicated pen-and-ink drawings like medieval miniatures.

complicated

adj. involving a lot of different things or parts in a way that is difficult to understand or analyze

synonym: complex, convoluted, intricate

(1) a **complicated** process, (2) become increasingly **complicated**

He did **complicated** pen-and-ink drawings in just a few days.

interference

 the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with

synonym: obstruction, hindrance, impedance

(1) officious **interference**, (2) **interference** wave Unfortunately, the radio **interference** made it difficult to hear the broadcast.

develop

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

synonym: evolve, progress, advance

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

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

accurate

adj. correct and exact in all detailssynonym: exact, precise, proper

(1) provide **accurate** information, (2) **accurate** measurements

The official transcript contains accurate academic records.

advance

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

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

degree

 a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment

synonym: level, qualification, diploma

(1) bachelor's **degree**, (2) **degree** centigrade

She received her **degree** in psychology from the university.

handy

adj. valuable and convenient; easy or ready to reach or use synonym: clever, accessible, available

(1) a handy-sized bag, (2) handy tool

They found a **handy** place to play catch.

advantage

 a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has

synonym: benefit, edge, asset

(1) score an **advantage**, (2) take **advantage** of his weak points

One of the main **advantages** of the new product is its increased efficiency.

frequent

adj. happening constantly

synonym: periodic, recurring, routine

(1) frequent absence, (2) frequent use

His heartaches are less frequent now.

evolve

v. to develop gradually, or to cause the development of something or someone gradually

synonym: develop, mature, grow

(1) **evolve**, (2) **evolve** over the past decade

Eyeless fish **evolved** in dark caves.

mast

- n. a long pole aboard a boat or ship that holds up the sails
- (1) mast height, (2) built-up mast

The main cabin is located in front of the **mast**.

maneuver

 a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage

synonym: gimmick, trick, action

(1) political **maneuvers**, (2) made a great **maneuver** In this class, we learn the basic **maneuver** of the plane.

dominate

v. to have or control a lot of power and influence over somebody or something

synonym: govern, rule, prevail

(1) **dominate** possession, (2) **dominate** over the weak The perspective of his right brain **dominates** his consciousness.

tricky

adj. requiring care and skill because challenging to do or deal with

synonym: thorny, problematic, crafty

(1) **tricky** problem, (2) a **tricky** recipe to follow We have discussed the entirety of this **tricky** problem.

distinctive

adj. having a quality or characteristic that makes it stand out from others

synonym: characteristic, individual, unique

(1) **distinctive** ability, (2) design to be **distinctive**His writing style was **distinctive**, with a clear and concise voice.

feat

 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.

possibility

- n. a chance that something may happen or be truesynonym: chance, prospect, likelihood
- (1) possibility for growth, (2) possibility of a major

earthquake

The **possibility** of getting the disease will drastically increase.

superposition

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

synonym: overlay, overlap

(1) quantum **superposition**, (2) **superposition** theorem The **superposition** of waves can result in either constructive or destructive interference.

simultaneously

adv. at the same time

synonym: concurrently, coincidently, together

(1) **simultaneously** affected, (2) take several inputs **simultaneously**

Two students answered the teacher's question **simultaneously**.

strike

- v. to wallop somebody or something with the hand, fist, or weapon; to have an emotional or cognitive impact upon synonym: hit, impact, influence
- (1) **strike** up a conversation, (2) **strike** a blow We **strike** to achieve more wages and safer working conditions.

champion

someone who has won first place in a competition;
 someone who fights for a specific group of people or a belief

synonym: victor, winner, fighter

(1) a **champion** of peace, (2) the grand **champion** The **champion** bicyclist outrode all his competitors.

technique

a particular way or art of doing something that needs skill

synonym: approach, procedure, strategy

(1) a **technique** in martial arts, (2) the **technique** applied to construction

Jockey's superior **technique** brought him victory.

Session 2: Spelling

1.	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
2.	a teue in martial arts	n.	a particular way or art of doing something that needs skill
3.	the teue applied to construction	n.	a particular way or art of doing something that needs skill
4.	ade the technology	<i>v</i> .	to go or move forward; to develop in a positive way
5.	coct a 3D image	v.	to build or create something; to assemble or combine different parts to form something whole
6.	sn a top	v.	to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
7.	numerous unin factors	adj.	not being sure of something; not being able to choose
8.	expansion of the unse	n.	everything that exists, especially all physical matter, including planets, stars galaxies, and all other forms of matter and energy
9.	laws of qum mechanics	n.	the smallest amount or unit of something, especially (electromagnetic) energy

ANSWERS: 1. superposition, 2. technique, 3. technique, 4. advance, 5. construct, 6. spin, 7. uncertain, 8. universe, 9. quantum

10.	coct a dam	v.	to build or create something; to assemble or combine different parts to form something whole
11.	ince the daily life	n.	the ability to affect someone's or something's character, growth, or behavior, or the effect itself
12.	eve	ν.	to develop gradually, or to cause the development of something or someone gradually
13.	Nean physics	adj.	relating to Sir Isaac Newton or his laws of motion and universal gravitation
14.	det a bad event	ν.	to find or recognize something, especially something difficult to see, hear, etc.
15.	phn energy	n.	a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation
16.	prle cause of a fire	adj.	likely to happen or likely to be true
17.	sn thread out of cotton	<i>v</i> .	to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
18.	st a mouthful of saliva	<i>v</i> .	to eject saliva or other liquid from the mouth
19.	apnt contradiction	adj.	able to see or understand easily or clearly
20.	ste a blow	<i>v</i> .	to wallop somebody or something with the hand, fist, or weapon; to have an emotional or cognitive impact upon

ANSWERS: 10. construct, 11. influence, 12. evolve, 13. Newtonian, 14. detect, 15. photon, 16. probable, 17. spin, 18. spit, 19. apparent, 20. strike

21.	are games	n.	a covered passageway or walkway, often lined with shops or restaurants; a series of arches supported by columns; a type of video game in which the player controls a character moving through a series of levels and obstacles
22.	und on vacation	ν.	to relax and release tension, often by engaging in leisure activities or by simply resting; to reverse the winding or twisting of something
23.	a circular mont	n.	a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
24.	computer opnt	n.	a person against whom you are playing or fighting in a game, competition, debate, etc.
25.	simsly affected	adv.	at the same time
26.	int coin	<i>v</i> .	to put something inside something else
27.	r_d cell	n.	a long, thin, straight piece of wood, metal, or other material used for support, as a weapon, or for punishment
28.	git tech company	adj.	enormous; much bigger or more important than similar items usually are
29.	a detnt of crop yields	n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

ANSWERS: 21. arcade, 22. unwind, 23. movement, 24. opponent, 25. simultaneously, 26. insert, 27. rod, 28. giant, 29. determinant

30.	score an adge	n.	a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
31.	muscular stth	n.	the quality or state of being physically, or sometimes mentally, strong
32.	glm like honey	v.	to reflect light in a way that creates a shining or bright and attractive appearance; to become visible or apparent
33.	way to mize conflict	<i>v</i> .	to make something, especially something bad, small or less serious
34.	prle of treatment	n.	a fundamental law or truth that explains or controls how something happens or works
35.	dote possession	<i>v</i> .	to have or control a lot of power and influence over somebody or something
36.	environmental detnt	n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
37.	a hay-sized bag	adj.	valuable and convenient; easy or ready to reach or use
38.	likod of the success	n.	the probability or chance that something will happen or be the case
39.	gon a public enterprise	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: 30. advantage, 31. strength, 32. gleam, 33. minimize, 34. principle, 35. dominate, 36. determinant, 37. handy, 38. likelihood, 39. govern

something that is regarded as usual, 40. cultural n m n. typical, or standard the smallest amount or unit of 41. probabilistic qu m theory n. something, especially (electromagnetic) energy 42. tu___I construction work an underground or underwater n. passage, typically for trains or cars 43. ha y tool adj. valuable and convenient; easy or ready to reach or use 44. la y accepted adv. virtually entirely; to a large degree the science of matter and energy and 45. laws of ph s n. their interactions 46. pr le outcome adj. likely to happen or likely to be true 47. heir ap___nt adj. able to see or understand easily or clearly to watch or notice something carefully, 48. ob e a tradition often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion 49. co____on detection an instance of two or more objects or n. entities crashing into each other, usually resulting in damage, impact, or conflict 50. n_m of action something that is regarded as usual, typical, or standard 51. st___e up a conversation to wallop somebody or something with ν. the hand, fist, or weapon; to have an

ANSWERS: 40. norm, 41. quantum, 42. tunnel, 43. handy, 44. largely, 45. physics, 46. probable, 47. apparent, 48. observe, 49. collision, 50. norm, 51. strike

emotional or cognitive impact upon

52. criminal on death r w an arrangement of objects or people n. side by side in a line 53. m t height a long pole aboard a boat or ship that n. holds up the sails 54. sp___ng machine the act of rotating rapidly around an n. axis; in the context of textiles, the process of twisting fibers together to form thread or yarn 55. pos_____ty for growth a chance that something may happen or be true 56. design to be dis____ve adj. having a quality or characteristic that makes it stand out from others 57. intellectual f t a notable or impressive achievement, n. especially one that requires great skill or bravery wrongdoing or wicked behavior; (in the 58. virtue and v e n. form of vice versa) with the order reversed; (as a prefix) someone with a job immediately below a particular person 59. dis____ve ability adj. having a quality or characteristic that makes it stand out from others 60. la y mitigate the issue adv. virtually entirely; to a large degree 61. vulnerable to man____te to influence or control something or ν. someone to your advantage, often in an unfair or dishonest way 62. his majestic pr___ce the fact or state that someone or n. something exists, occurs, or is present

ANSWERS: 52. row, 53. mast, 54. spinning, 55. possibility, 56. distinctive, 57. feat, 58. vice, 59. distinctive, 60. largely, 61. manipulate, 62. presence

63.	brilliant flh	n.	a sudden intense burst of radiant energy; a momentary brightness
64.	the conce of an argument	n.	the outcome of a particular action or event, especially relative to an individual
65.	Nean mechanics	adj.	relating to Sir Isaac Newton or his laws of motion and universal gravitation
66.	mole behavior	n.	a group of two or more atoms held together by attractive forces known as chemical bonds
67.	a gear change ler	n.	a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily
68.	beam of elons	n.	a tiny particle with the negative electrical charge
69.	an oble to progress	n.	a thing that blocks one's way or prevents or hinders progress
70.	a comed process	adj.	involving a lot of different things or parts in a way that is difficult to understand or analyze
71.	stth of the economy	n.	the quality or state of being physically, or sometimes mentally, strong
72.	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: 63. flash, 64. consequence, 65. Newtonian, 66. molecule, 67. lever, 68. electron, 69. obstacle, 70. complicated, 71. strength, 72. superposition

73.	frnt use	adj.	happening constantly
74.	oble avoidance	n.	a thing that blocks one's way or prevents or hinders progress
75.	charged pale	n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance
76.	mire camera	adj.	being on a very small scale
77.	meet with oppon	n.	the act of disagreeing or resisting; the state of strong disagreement
78.	und after work	v.	to relax and release tension, often by engaging in leisure activities or by simply resting; to reverse the winding or twisting of something
79.	pale energy	n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance
80.	improve the likod of a cure	n.	the probability or chance that something will happen or be the case
81.	try problem	adj.	requiring care and skill because challenging to do or deal with
82.	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
83.	obe wildlife	ν.	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: 73. frequent, 74. obstacle, 75. particle, 76. miniature, 77. opposition, 78. unwind, 79. particle, 80. likelihood, 81. tricky, 82. mechanics, 83. observe

84.	det smuggling across borders	<i>v</i> .	to find or recognize something, especially something difficult to see, hear, etc.
85.	intnce wave	n.	the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with
86.	fae announcement	n.	a short, loud, and attention-grabbing burst of sound, often to announce or celebrate something special; a flourished or ostentatious display or demonstration
87.	provide acte information	adj.	correct and exact in all details
88.	oppon campaign	n.	the act of disagreeing or resisting; the state of strong disagreement
89.	death-penalty opnt	n.	a person against whom you are playing or fighting in a game, competition, debate, etc.
90.	made a great maer	n.	a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage
91.	diste wealth evenly	<i>v</i> .	to give something to a large number of individuals, or to spread or furnish something
92.	small moles	n.	a group of two or more atoms held together by attractive forces known as chemical bonds
93.	plainly evt	adj.	apparent to the mind, senses, or judgment

ANSWERS: 84. detect, 85. interference, 86. fanfare, 87. accurate, 88. opposition, 89. opponent, 90. maneuver, 91. distribute, 92. molecule, 93. evident

94.	unintended conces	n.	the outcome of a particular action or event, especially relative to an individual
95.	estimate pre costs	adj.	sharply exact or accurate or delimited
96.	diste video content	v.	to give something to a large number of individuals, or to spread or furnish something
97.	f_t accomplishment	n.	a notable or impressive achievement, especially one that requires great skill or bravery
98.	accte the car	v.	to make something faster or earlier; to cause to develop or progress more quickly
99.	royal fae	n.	a short, loud, and attention-grabbing burst of sound, often to announce or celebrate something special; a flourished or ostentatious display or demonstration
100	o. dep a skill	ν.	to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
101	. take several inputs simsly	adv.	at the same time
102	2. ler for reform	n.	a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily

ANSWERS: 94. consequence, 95. precise, 96. distribute, 97. feat, 98. accelerate, 99. fanfare, 100. develop, 101. simultaneously, 102. lever

103. git trees	adj.	enormous; much bigger or more important than similar items usually are
104. a fl_h of lightning	n.	a sudden intense burst of radiant energy; a momentary brightness
105. prt the future	v.	to state beforehand that something will happen in the future, mainly based on knowledge or experience
106. 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
107. glm in eyes	v.	to reflect light in a way that creates a shining or bright and attractive appearance; to become visible or apparent
108. mecs equation	n.	the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles
109. become increasingly comed	adj.	involving a lot of different things or parts in a way that is difficult to understand or analyze
110. phn emission	n.	a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation
111. dep a strategy	ν.	to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 103. giant, 104. flash, 105. predict, 106. degree, 107. gleam, 108. mechanics, 109. complicated, 110. photon, 111. develop

112. theory of the unse	n.	everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
113. vam cleaner	n.	a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
114. 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
115. ade a cooperative relationship	ν.	to go or move forward; to develop in a positive way
116. mante figures	ν.	to influence or control something or someone to your advantage, often in an unfair or dishonest way
117. nuclear phs	n.	the science of matter and energy and their interactions
118. mire version	adj.	being on a very small scale
119. curtain r_d	n.	a long, thin, straight piece of wood, metal, or other material used for support, as a weapon, or for punishment
120. the evidence of the prce	n.	the fact or state that someone or something exists, occurs, or is present
121. initial vety	n.	the rate of change of an object's position with respect to time, often measured in meters per second (m/s)

ANSWERS: 112. universe, 113. vacuum, 114. vice, 115. advance, 116. manipulate, 117. physics, 118. miniature, 119. rod, 120. presence, 121. velocity

122. vam packing	n.	a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
123. acte measurements	adj.	correct and exact in all details
124. 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
125. spng wheel	n.	the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn
126. officious intnce	n.	the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with
127. prle in business	n.	a fundamental law or truth that explains or controls how something happens or works
128. built-up mt	n.	a long pole aboard a boat or ship that holds up the sails
129. take an unin attitude	adj.	not being sure of something; not being able to choose
130. frnt absence	adj.	happening constantly
131. ince a child's future	n.	the ability to affect someone's or something's character, growth, or behavior, or the effect itself
132. political maers	n.	a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage

ANSWERS: 122. vacuum, 123. accurate, 124. degree, 125. spinning, 126. interference, 127. principle, 128. mast, 129. uncertain, 130. frequent, 131. influence, 132. maneuver

133. a tr y recipe to follow adj. requiring care and skill because challenging to do or deal with to legally control and direct a country, 134. a nation's right to go n city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services 135. pr___e analyses adj. sharply exact or accurate or delimited 136. do____te over the weak to have or control a lot of power and ν. influence over somebody or something an arrangement of objects or people 137. a r w of cherry trees side by side in a line to state beforehand that something will 138. pr___t when she will arrive happen in the future, mainly based on knowledge or experience 139. tu I disease an underground or underwater n. passage, typically for trains or cars 140. in t a graphic to put something inside something else ν. 141. mi ze a loss to make something, especially ν. something bad, small or less serious 142. his research area of the ability to focus all your time and n. energy on one thing without thinking con____ion about anything else. to eject saliva or other liquid from the 143. s t a bullet mouth 144. ev e over the past decade to develop gradually, or to cause the ν. development of something or someone gradually

ANSWERS: 133. tricky, 134. govern, 135. precise, 136. dominate, 137. row, 138. predict, 139. tunnel, 140. insert, 141. minimize, 142. concentration, 143. spit, 144. evolve

145. sk a lot of capital	v.	to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else
146. come into coon with my friend	n.	an instance of two or more objects or entities crashing into each other, usually resulting in damage, impact, or conflict
147. conion of armaments	n.	the ability to focus all your time and energy on one thing without thinking about anything else.
148. take adge of his weak points	n.	a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
149. mont of troops	n.	a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
150. high vety	n.	the rate of change of an object's position with respect to time, often measured in meters per second (m/s)
151. sk a buzzer-beater	ν.	to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else
152. colonnaded are	n.	a covered passageway or walkway, often lined with shops or restaurants; a series of arches supported by columns; a type of video game in which the player controls a character moving through a series of levels and obstacles

ANSWERS: 145. sink, 146. collision, 147. concentration, 148. advantage, 149. movement, 150. velocity, 151. sink, 152. arcade

153. pos ty of a major earthquake n. a chance that something may happen or be true 154. acc____te a chemical reaction to make something faster or earlier; to ν. cause to develop or progress more quickly 155. flow of el ons a tiny particle with the negative n. electrical charge 156. the grand ch___on someone who has won first place in a n. competition; someone who fights for a specific group of people or a belief someone who has won first place in a 157. a ch___on of peace n. competition; someone who fights for a specific group of people or a belief 158. ev____t to all adj. apparent to the mind, senses, or

ANSWERS: 153. possibility, 154. accelerate, 155. electron, 156. champion, 157. champion, 158. evident

judgment

Session 3: Fill in the Blanks

1.	The security camera has four intruders.
v.	to find or recognize something, especially something difficult to see, hear, etc.
2.	The government tried to the commercialization of this development.
ν.	to make something faster or earlier; to cause to develop or progress more quickly
3.	She tried to out the gum that she had been chewing.
<i>v</i> .	to eject saliva or other liquid from the mouth
4.	She was about her friend's intentions.
adj	not being sure of something; not being able to choose
5.	The of getting the disease will drastically increase.
n.	a chance that something may happen or be true
6.	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
7.	Unfortunately, the radio made it difficult to hear the broadcast.
n.	the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with
8.	These heavy rains caused floods on several islands.
n.	a sudden intense burst of radiant energy; a momentary brightness
	SWERS: 1. detected, 2. accelerate, 3. spit, 4. uncertain, 5. possibility, 6.

9.	He was the leader of the demonstrators and spoke out against the war in the front
n.	an arrangement of objects or people side by side in a line
10.	These economic activities had disastrous environmental
n.	the outcome of a particular action or event, especially relative to an individual
11.	It seems that he has forgotten our scheduled meeting.
adj	likely to happen or likely to be true
12.	The team arrived in a flurry of after winning the championship.
n.	a short, loud, and attention-grabbing burst of sound, often to announce or celebrate something special; a flourished or ostentatious display or demonstration
13.	The workers had to dig through solid rock to create the vehicular allowing the cars to pass through the mountain.
n.	an underground or underwater passage, typically for trains or cars
14.	The of the dancers on stage was graceful and elegant.
n.	a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
15.	Health and are, above all, gold.
n.	the quality or state of being physically, or sometimes mentally, strong
16.	His estate was to his sons.
ν.	to give something to a large number of individuals, or to spread or furnish something
	SWERS: 9. row, 10. consequences, 11. probable, 12. fanfare, 13. tunnel, 14. vement, 15. strength, 16. distributed

17. I bought a gadget before my trip to help stress during the flight. v. to make something, especially something bad, small or less serious
18. The jets gradually dominate the world's airlines. adj. enormous; much bigger or more important than similar items usually are
19. His writing style was with a clear and concise voice. adj. having a quality or characteristic that makes it stand out from others
20. Two students answered the teacher's question adv. at the same time
21. The tornado is across the countryside, destroying everything in its path.
ν . to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
22. The is about 13.8 billion years old.
 everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
23. He used a fishing to catch the biggest fish of the day.
 a long, thin, straight piece of wood, metal, or other material used for support, as a weapon, or for punishment
24. The shape of the DNA is a double helix.
 a group of two or more atoms held together by attractive forces known as chemical bonds
ANSWERS: 17. minimize, 18. giant, 19. distinctive, 20. simultaneously, 21. spinning, 22. universe, 23. rod, 24. molecule

ANSWERS: 25. complicated, 26. tricky, 27. governing, 28. largely, 29. evolved, 30. champion, 31. predict, 32. vice

33.	The outermost shell determines the chemical properties of an atom.	
n.	a tiny particle with the negative electrical charge	
34.	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	
35.	His heartaches are less now.	
adj	happening constantly	
36.	She took a class at the gym to improve her cardiovascular fitness.	
n.	the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn	
37.	The of the car was too fast for the road conditions.	
n.	the rate of change of an object's position with respect to time, often measured in meters per second (m/s)	
38.	Jockey's superior brought him victory.	
n.	a particular way or art of doing something that needs skill	
39.	The course was challenging but fun.	
n.	a thing that blocks one's way or prevents or hinders progress	
40.	The of tectonic plates can result in new mountain ranges, such as the Himalayas or the Alps.	
n.	an instance of two or more objects or entities crashing into each other, usually resulting in damage, impact, or conflict	
ANSWERS: 33. electron, 34. particles, 35. frequent, 36. spinning, 37. velocity, 38. technique, 39. obstacle, 40. collision		

41.	The diamond ring in the sunlight, catching everyone's eye.
ν.	to reflect light in a way that creates a shining or bright and attractive appearance; to become visible or apparent
42.	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
43.	This initiative will be a for increasing company sales.
n.	a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily
44.	One of success is having a positive attitude and a strong work ethic.
n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
45.	This exam requires excellent to pass.
n.	the ability to focus all your time and energy on one thing without thinking about anything else.
46.	With joy, he signed his name.
adj	apparent to the mind, senses, or judgment
47.	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
48.	The content is and informative for me.
adj	sharply exact or accurate or delimited
	SWERS: 41. gleamed, 42. feat, 43. lever, 44. determinant, 45. concentration, 46. dent, 47. degree, 48. precise

49. He was attempting to confuse his
 a person against whom you are playing or fighting in a game, competition, debate, etc.
50. Please tell me how to this computer.
ν . to influence or control something or someone to your advantage, often in an unfair or dishonest way
51. He hypotheses that no mathematician has ever imagined before.
ν . to build or create something; to assemble or combine different parts to form something whole
52. The perspective of his right brain his consciousness.
v. to have or control a lot of power and influence over somebody or something
53. He did complicated pen-and-ink drawings like medieval
adj. being on a very small scale
54. She a new chapter into her manuscript.
v. to put something inside something else
55. The official transcript contains academic records.
adj. correct and exact in all details
56. We to achieve more wages and safer working conditions.
ν . to wallop somebody or something with the hand, fist, or weapon; to have an emotional or cognitive impact upon
57. The path to a solid online necessitates a high technical ability.
n. the fact or state that someone or something exists, occurs, or is present
ANSWERS: 49. opponent, 50. manipulate, 51. constructs, 52. dominates, 53. miniatures, 54. inserted, 55. accurate, 56. strike, 57. presence

ANSWERS: 58. advance, 59. mechanics, 60. vacuum, 61. unwind, 62. arcade, 63. maneuver, 64. likelihood, 65. apparent

	The systems we have developed has accepted as industry
n.	something that is regarded as usual, typical, or standard
67.	Big techs are now eager to develop computers.
n.	the smallest amount or unit of something, especially (electromagnetic) energy
68.	The former emperor had a particular even after he abdicated.
n.	the ability to affect someone's or something's character, growth, or behavior, or the effect itself
69.	Efficiency isn't an essential here; fairness is.
n.	a fundamental law or truth that explains or controls how something happens or works
70.	They found a place to play catch.
adj.	valuable and convenient; easy or ready to reach or use
71.	The main cabin is located in front of the
n.	a long pole aboard a boat or ship that holds up the sails
72.	He studied the of radiation.
n.	the science of matter and energy and their interactions
	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
	SWERS: 66. norms, 67. quantum, 68. influence, 69. principle, 70. handy, 71. mast physics, 73. observe

ANSWERS: 74. photons, 75. opposition, 76. develop, 77. advantages, 78. sink, 79. Newtonian

adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation