# **Englist.me**

### Vocabulary Builder Reference from...

Chad Orzel: What is the Heisenberg Uncertainty

Principle? | TED Talk

https://www.ted.com/talks/chad\_orzel\_what\_is\_the\_h

eisenberg\_uncertainty\_principle



### **All Words**

#### **IMPORTANT**

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### **Session 1: Word List**

#### 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.

#### quantum

- 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.

### physics

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

He studied the **physics** of radiation.

#### 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.

### 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.

### metaphor

 a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity

synonym: conceit, analogy, symbol

metaphor for death, (2) visual metaphor
 She expressed her thought in an artful choice of metaphors.

#### criticism

n. the act of analyzing, evaluating, or judging something, especially literary or artistic work, to find fault with it or to offer suggestions for improvement; the expression of disapproval or censure

synonym: critique, commentary, review

(1) **criticism** from the public, (2) harsh **criticism**Constructive **criticism** is always helpful to help improving one's work.

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

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

### origin

- n. the first existence or beginning of something
- synonym: root, source, ancestor
- (1) **origin** of information, (2) racial **origin**

There are various hypotheses concerning the **origin** of life.

### amazing

adj. extremely surprising, especially in a way that you like or admire

synonym: exceptional, extraordinary, wonderful

- (1) **amazing** advances, (2) the most **amazing** feeling
- The golfer recorded an **amazing** distance.

#### 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.

### particle

- n. a small piece of something; a word or piece of a term with grammatical function but little or no significancesynonym: atom, grain, bit
- (1) charged **particle**, (2) **particle** energy We can calculate the position of the **particles** statistically.

#### mechanics

 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.

#### definition

 a concise explanation of the meaning of a word, phrase, or symbol

synonym: description, connotation, meaning

(1) a precise **definition**, (2) the **definition** of a word Parallel lines are, by **definition**, lines on the same plane that

never cross.

#### instant

adj. happening immediately, with no delay

*synonym*: immediate, urgent, moment

(1) get instant access, (2) an instant reply

His pleasant face turned cold in an **instant**.

### 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.

### graph

 a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other

synonym: chart, diagram, figure

(1) graph theory, (2) a graph sample

This bar **graph** shows sales over the past five years.

### probabilistic

adj. characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks

synonym: probable, statistical, likely

(1) **probabilistic** model, (2) **probabilistic** approach In a **probabilistic** system, the outcome is uncertain and can vary based on chance.

spike

 a narrow, thin, pointed piece of metal, wood, etc.; a sudden large increase in the magnitude or concentration of something

synonym: end, spindle, point

(1) to **spike**, (2) to prevent blood sugar **spikes** 

The recent **spike** in grain prices is partly due to the war in the producing countries.

### specific

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

synonym: particular, definite, distinct

(1) **specific** instructions, (2) industry- **specific** regulations
The scientist conducted a study that provided **specific** details about the species' behavior.

### disturbance

 something that interrupts a settled and peaceful condition or that makes someone feel nervous or worried

synonym: disorder, upset, annoyance

(1) a nervous **disturbance**, (2) a **disturbance** caused by a terrorist

This building construction causes serious **disturbance** to residents.

### ripple

 a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind

synonym: wave, undulation, fluctuation

(1) a **ripple** of laughter, (2) **ripple** in the water Many businesses felt the **ripple** effect of the economy's decline.

#### pond

n. a small, shallow lake

synonym: lake, pool, basin

(1) a garden **pond**, (2) **pond** water

The freshwater **pond** was home to many different types of fish and was a popular spot for fishing.

### identify

 to recognize someone or something and say or prove who or what they are

synonym: determine, specify, recognize

(1) **identify** handwriting, (2) **identify** gene sequences I will introduce you to how to **identify** the leading causes of the malfunction.

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.

### wavelength

- the distance between two points in the same phase in consecutive cycles of a wave
- (1) wavelength of light, (2) long- wavelength laser White color is made up of many different wavelengths of light.

#### distance

n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

synonym: space, gap, span

(1) driving distance,(2) social distanceThe marathon runner covered a long distance in a short

amount of time.

### peak

 n. the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain

synonym: summit, vertex, apex

- at peak hour, (2) the peak current in the circuit
   This measurement aims to reduce traffic at peak periods.
- valley

 a long depression on the surface of the land, which typically contains a river

synonym: canyon, gorge, dale

(1) valley bottom, (2) basin-shaped valley

The valley had received a mild snowfall the previous week.

### assign

v. to give a specific job or piece of work to a someone synonym: entrust, delegate, designate

(1) assign projects, (2) assign top priority

Please **assign** a different color to each other kind of item.

#### essential

relate

adj. indispensable; fundamental synonym: critical, crucial, basic

- (1) essential amino acid, (2) essential commodities of life Trial and error is an **essential** part of education.
- to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something

synonym: connect, link, associate

(1) **relate** a story, (2) **relate** a message

He tried to **relate** his experience to the group, but they couldn't understand.

#### mass

a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together

synonym: abundance, crowd, mob

(1) a mass of molten rock, (2) critical mass

The **mass** of people who do not own property is politically impotent.

### 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.

adj. causing strong emotions or feelings, especially sadness or sympathy

synonym: emotional, poignant, touching

(1) moving experience, (2) moving ceremony

His **moving** speech about his struggles with addiction

moving

brought tears to the audience's eyes.

### correspond

v. to match or be similar to something else almost exactly; to exchange messages

synonym: match, equate, communicate

(1) **correspond** to a standard, (2) **correspond** with a foreign student

The numbers on the sign **correspond** to points on the map.

toss

- v. to throw something carelessly with a light motion synonym: throw, sway
- (1) **toss** a coin, (2) **toss** the bottle into a trash can It would be best if you **tossed** out all those old magazines.

trillion

- *n.* the number 1,000,000,000; a million million
- (1) **trillion** cubic feet, (2) many **trillions** of dollars One light year is nearly 6 **trillion** miles.

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.

atom

 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

- n. a tiny particle with the negative electrical charge synonym: negatron
- (1) flow of electrons, (2) beam of electronsThe outermost electron shell determines the chemical

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properties of an atom.

### experiment

 the scientific test conducted to observe what happens and gain new knowledge

synonym: experimentation, investigation

(1) **experiment** design, (2) series of **experiments** His **experiments** showed highly positive results.

#### combine

- v. to join or merge to form a single thing or group synonym: coalesce, cohere, blend
- (1) **combine** chemically with another substance,
- (2) **combine** augmented reality

Hydrogen and oxygen combine to form water.

### 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.

#### separate

- v. to force, take, or pull apart; mark as different synonym: 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.

#### cancel

v. to decide that a previously scheduled activity will not take place

synonym: abort, invalidate, annul

(1) **cancel** a class, (2) **cancel** a free subscription trial When customers **cancel** their reservations, they lose the deposit they made.

#### wavy

 adj. characterized by a series of curves, undulations, or bends that create a rippled or serpentine appearance; not straight or flat

synonym: curly, undulating, rippled

(1) wavy pattern, (2) wavy sea

The model's hair was long and wavy, cascading down her back in soft waves.

### packet

 a small container or envelope that holds one or more items typically used for storing or transporting items like food, medicine, or marketing materials

synonym: package, parcel, bundle

(1) **packet** delivery, (2) **packet** data network I need to buy a **packet** of biscuits from the store.

### accomplish

- v. to finish or achieve something successfully synonym: achieve, complete, execute
- (1) **accomplish** a goal, (2) **accomplish** military operations Humankind took centuries to **accomplish** true democracy.

### certainty

- *n*. the state of being certain
- synonym: inevitability, confidence, assurance
- (1) scientific **certainty**, (2) reach **certainty** about the theory Through investigation, his suspicions hardened into **certainty**.

#### restricted

adj. limited in extent, number, scope, or action, especially by official rules, laws, etc.

synonym: limited, determinate, fixed

(1) restricted area, (2) lactose restricted diet

The country has designated our products as **restricted** import goods.

### corresponding

adj. similar to, connected with, or accompanying something, especially in position or purpose

synonym: matching, equivalent, analogous

(1) find a **corresponding** lack, (2) the **corresponding** word in Spanish

### The **corresponding** number on the dial was 3.

#### germ

 a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one

synonym: bacterium, microbe, pathogen

(1) antibiotic-resistant **germ**, (2) a **germ-free** environment The **germ** of his idea came from watching birds flying in flocks.

### physicist

- n. 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.

#### inevitable

*adj.* certain to happen and unavoidable *synonym*: inescapable, unavoidable, sure

(1) **inevitable** changes of the seasons, (2) **inevitable** result In times of recession, an increase in unemployment is **inevitable**.

### practical

adj. of or connected with actual use or real situation rather than with theory and ideas

synonym: applicable, functional, realistic

(1) **practical** English, (2) gain **practical** experience Her concept is highly **practical** and helpful.

#### **fundamental**

adj. forming an essential base or core from which everything else develops or is affected

synonym: basic, essential, entire

(1) **fundamental** education, (2) **fundamental** rights Human behavior has **fundamental** characteristics.

#### structure

 the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

synonym: construction, architecture, establishment

(1) the **structure** of a machine, (2) **structure** and function of the brain

The organizational **structure** of start-ups is often flat and straightforward.

## **Session 2: Spelling**

1.	vay bottom	n.	a long depression on the surface of the land, which typically contains a river
2.	reach cety about the theory	n.	the state of being certain
3.	flow of elons	n.	a tiny particle with the negative electrical charge
4.	sete cream from milk	<i>v</i> .	to force, take, or pull apart; mark as different
5.	at pk hour	n.	the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain
6.	posty of a major earthquake	n.	a chance that something may happen or be true
7.	posty for growth	n.	a chance that something may happen or be true
8.	critical ms	n.	a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
9.	to spe	n.	a narrow, thin, pointed piece of metal, wood, etc.; a sudden large increase in the magnitude or concentration of something
10.	expansion of the unse	n.	everything that exists, especially all physical matter, including planets, stars galaxies, and all other forms of matter and energy

ANSWERS: 1. valley, 2. certainty, 3. electron, 4. separate, 5. peak, 6. possibility, 7. possibility, 8. mass, 9. spike, 10. universe

	11.	asn top priority	ν.	to give a specific job or piece of work to a someone
piece of a term with grammatical function but little or no significance  14. intellectual f_t  15. many trons of dollars  16. the stre of a machine  17. a disce caused by a terrorist  18. laws of phs  19. antibiotic-resistant g_m  10. a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one  20. rie in the water  21. det smuggling across borders  22. det smuggling across borders  23. a notable or impressive achievement, especially something rand not significance  24. intellectual f_t  25. a notable or impressive achievement, especially something rand there requires great skill or bravery  26. a notable or impressive achievement, especially something great skill or bravery  27. a notable or impressive achievement, especially something difficult to see,	12.	pd water	n.	a small, shallow lake
especially one that requires great skill or bravery  15. many trons of dollars  n. the number 1,000,000,000,000; a million million  16. the stre of a machine  n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts  17. a disce caused by a terrorist  n. something that interrupts a settled and peaceful condition or that makes someone feel nervous or worried  18. laws of phs  n. the science of matter and energy and their interactions  19. antibiotic-resistant g_m  n. a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one  20. rie in the water  n. a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind  21. det smuggling across borders  v. to find or recognize something, especially something difficult to see,	13.	pale energy	n.	piece of a term with grammatical
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typically caused by an object falling into it or a slight wind  21. det smuggling across borders  v. to find or recognize something, especially something difficult to see,	19.	antibiotic-resistant gm	n.	disease; a piece of something such as an organism, concept, etc., capable of
especially something difficult to see,	20.	rie in the water	n.	a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind
	21.	det smuggling across borders	ν.	especially something difficult to see,

ANSWERS: 11. assign, 12. pond, 13. particle, 14. feat, 15. trillion, 16. structure, 17. disturbance, 18. physics, 19. germ, 20. ripple, 21. detect

22.	the defon of a word	n.	a concise explanation of the meaning of a word, phrase, or symbol
23.	coe augmented reality	<i>v</i> .	to join or merge to form a single thing or group
24.	beam of elons	n.	a tiny particle with the negative electrical charge
25.	driving dice	n.	the amount of space between two points, measured in units such as miles meters, or kilometers; the extent, scope or range between two things, such as distance or emotional distance
26.	initial vety	n.	the rate of change of an object's position with respect to time, often measured in meters per second (m/s)
27.	talented phst	n.	a scientist who specializes in the field of physics
28.	the pk current in the circuit	n.	the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain
29.	get int access	adj.	happening immediately, with no delay
30.	theory of the unse	n.	everything that exists, especially all physical matter, including planets, stars galaxies, and all other forms of matter and energy
31.	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

ANSWERS: 22. definition, 23. combine, 24. electron, 25. distance, 26. velocity, 27. physicist, 28. peak, 29. instant, 30. universe, 31. mechanics

32.	social dice	n.	the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
33.	esal amino acid	adj.	indispensable; fundamental
34.	theoretical phst	n.	a scientist who specializes in the field of physics
35.	a nervous disce	n.	something that interrupts a settled and peaceful condition or that makes someone feel nervous or worried
36.	harsh crsm	n.	the act of analyzing, evaluating, or judging something, especially literary or artistic work, to find fault with it or to offer suggestions for improvement; the expression of disapproval or censure
37.	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
38.	simsly affected	adv.	at the same time
39.	ree a story	ν.	to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
40.	ree a message	ν.	to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something

ANSWERS: 32. distance, 33. essential, 34. physicist, 35. disturbance, 36. criticism, 37. vice, 38. simultaneously, 39. relate, 40. relate

41.	industry-spic regulations	adj.	clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
42.	protic model	adj.	characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
43.	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
44.	a rie of laughter	n.	a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind
45.	an int reply	adj.	happening immediately, with no delay
46.	exd a lineup	ν.	to increase or to make something greater in size, number, or importance
47.	orn of information	n.	the first existence or beginning of something
48.	racial orn	n.	the first existence or beginning of something
49.	wavth of light	n.	the distance between two points in the same phase in consecutive cycles of a wave
50.	meor for death	n.	a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
51.	exd agricultural output	<i>v</i> .	to increase or to make something greater in size, number, or importance

ANSWERS: 41. specific, 42. probabilistic, 43. atom, 44. ripple, 45. instant, 46. expand, 47. origin, 48. origin, 49. wavelength, 50. metaphor, 51. expand

52.	numerous unin factors	adj.	not being sure of something; not being able to choose
53.	ts a coin	<i>v</i> .	to throw something carelessly with a light motion
54.	pat delivery	n.	a small container or envelope that holds one or more items typically used for storing or transporting items like food, medicine, or marketing materials
55.	asn projects	<i>v</i> .	to give a specific job or piece of work to a someone
56.	take an unin attitude	adj.	not being sure of something; not being able to choose
57.	esal commodities of life	adj.	indispensable; fundamental
58.	caI a class	<i>v</i> .	to decide that a previously scheduled activity will not take place
59.	funal rights	adj.	forming an essential base or core from which everything else develops or is affected
60.	inele result	adj.	certain to happen and unavoidable
61.	tron cubic feet	n.	the number 1,000,000,000,000; a million million
62.	gr_h theory	n.	a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
63.	basin-shaped vay	n.	a long depression on the surface of the land, which typically contains a river
64.	mog experience	adj.	causing strong emotions or feelings, especially sadness or sympathy

ANSWERS: 52. uncertain, 53. toss, 54. packet, 55. assign, 56. uncertain, 57. essential, 58. cancel, 59. fundamental, 60. inevitable, 61. trillion, 62. graph, 63. valley, 64. moving

65.	pat data network	n.	a small container or envelope that holds one or more items typically used for storing or transporting items like food, medicine, or marketing materials
66.	idfy handwriting	<i>v</i> .	to recognize someone or something and say or prove who or what they are
67.	ft accomplishment	n.	a notable or impressive achievement, especially one that requires great skill or bravery
68.	rent by a diagram	ν.	to speak, act, or be present on behalf of another person or group; to form or constitute
69.	spic instructions	adj.	clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
70.	a precise defon	n.	a concise explanation of the meaning of a word, phrase, or symbol
71.	to prevent blood sugar spes	n.	a narrow, thin, pointed piece of metal, wood, etc.; a sudden large increase in the magnitude or concentration of something
72.	cornd with a foreign student	<i>v</i> .	to match or be similar to something else almost exactly; to exchange messages
73.	sete video into chapter	<i>v</i> .	to force, take, or pull apart; mark as different
74.	high vety	n.	the rate of change of an object's position with respect to time, often measured in meters per second (m/s)
75.	take several inputs simsly	adv.	at the same time

ANSWERS: 65. packet, 66. identify, 67. feat, 68. represent, 69. specific, 70. definition, 71. spike, 72. correspond, 73. separate, 74. velocity, 75. simultaneously

76. wy sea	adj.	characterized by a series of curves, undulations, or bends that create a rippled or serpentine appearance; not straight or flat
77. the most amg feeling	adj.	extremely surprising, especially in a way that you like or admire
78. accsh a goal	<i>v</i> .	to finish or achieve something successfully
79. inele changes of the seasons	adj.	certain to happen and unavoidable
80. the characters that rent numbers	v.	to speak, act, or be present on behalf o another person or group; to form or constitute
81. find a coring lack	adj.	similar to, connected with, or accompanying something, especially in position or purpose
82. cal a free subscription trial	ν.	to decide that a previously scheduled activity will not take place
83. accsh military operations	ν.	to finish or achieve something successfully
84. charged pale	n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance
85. probabilistic qum theory	n.	the smallest amount or unit of something, especially (electromagnetic) energy
86. a grh sample	n.	a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other

ANSWERS: 76. wavy, 77. amazing, 78. accomplish, 79. inevitable, 80. represent, 81. corresponding, 82. cancel, 83. accomplish, 84. particle, 85. quantum, 86. graph

hear, etc.  89. the coring word in Spanish  adj. similar to, connected with, or accompanying something, especial position or purpose  90. nuclear phs  n. the science of matter and energy at their interactions  91. expnt design  n. the scientific test conducted to obsign what happens and gain new knowled to everything an essential base or core of which everything else develops or affected  93. laws of qum mechanics  n. the smallest amount or unit of something, especially (electromage energy)  94. coe chemically with another substance  95. prle of treatment  n. a fundamental law or truth that export controls how something happen works  96. crsm from the public  n. the act of analyzing, evaluating, or judging something, especially literatistic work, to find fault with it or to offer suggestions for improvement	87.	a ms of molten rock	n.	a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
accompanying something, especial position or purpose  90. nuclear phs  n. the science of matter and energy at their interactions  91. expnt design  n. the scientific test conducted to obsimal what happens and gain new knowled what happens and gain new knowled which everything else develops or affected  92. funal education  adj. forming an essential base or core of which everything else develops or affected  93. laws of qum mechanics  n. the smallest amount or unit of something, especially (electromage energy)  94. coe chemically with another substance  95. prle of treatment  n. a fundamental law or truth that export controls how something happen works  96. crsm from the public  n. the act of analyzing, evaluating, or judging something, especially literal artistic work, to find fault with it or to offer suggestions for improvement	88.	det a bad event	ν.	especially something difficult to see,
their interactions  91. expnt design  n. the scientific test conducted to obswhat happens and gain new knowledge which everything an essential base or core which everything else develops or affected  93. laws of qum mechanics  n. the smallest amount or unit of something, especially (electromagenergy)  94. coe chemically with another substance  95. prle of treatment  n. a fundamental law or truth that export controls how something happen works  96. crsm from the public  n. the act of analyzing, evaluating, or judging something, especially literal artistic work, to find fault with it or to offer suggestions for improvement	89.	the coring word in Spanish	adj.	accompanying something, especially in
what happens and gain new knowledge of the second of the act of analyzing, especially litera artistic work, to find fault with it or to offer suggestions for improvement.	90.	nuclear phs	<i>n</i> .	the science of matter and energy and their interactions
which everything else develops or affected  93. laws of qum mechanics  n. the smallest amount or unit of something, especially (electromagenergy)  94. coe chemically with another substance  95. prle of treatment  n. a fundamental law or truth that export controls how something happen works  96. crsm from the public  n. the act of analyzing, evaluating, or judging something, especially literative artistic work, to find fault with it or to offer suggestions for improvement	91.	expnt design	n.	the scientific test conducted to observe what happens and gain new knowledge
something, especially (electromagenergy  94. coe chemically with another substance  95. prle of treatment  n. a fundamental law or truth that export or controls how something happen works  96. crsm from the public  n. the act of analyzing, evaluating, or judging something, especially literative artistic work, to find fault with it or to offer suggestions for improvement	92.	funal education	adj.	forming an essential base or core from which everything else develops or is affected
substance group  95. prle of treatment n. a fundamental law or truth that export controls how something happen works  96. crsm from the public n. the act of analyzing, evaluating, or judging something, especially literal artistic work, to find fault with it or to offer suggestions for improvement	93.	laws of qum mechanics	n.	something, especially (electromagnetic
or controls how something happen works  96. crsm from the public  n. the act of analyzing, evaluating, or judging something, especially literative artistic work, to find fault with it or to offer suggestions for improvement	94.		<i>v</i> .	to join or merge to form a single thing o group
judging something, especially litera artistic work, to find fault with it or t offer suggestions for improvement	95.	prle of treatment	n.	a fundamental law or truth that explains or controls how something happens or works
·	96.	crsm from the public	n.	the act of analyzing, evaluating, or judging something, especially literary or artistic work, to find fault with it or to offer suggestions for improvement; the expression of disapproval or censure

ANSWERS: 87. mass, 88. detect, 89. corresponding, 90. physics, 91. experiment, 92. fundamental, 93. quantum, 94. combine, 95. principle, 96. criticism

97. amg advances	adj.	extremely surprising, especially in a way that you like or admire
98. long-wavth laser	n.	the distance between two points in the same phase in consecutive cycles of a wave
99. wy pattern	adj.	characterized by a series of curves, undulations, or bends that create a rippled or serpentine appearance; not straight or flat
100. cornd to a standard	<i>v</i> .	to match or be similar to something else almost exactly; to exchange messages
101. a garden pd	n.	a small, shallow lake
102. gain pral experience	adj.	of or connected with actual use or real situation rather than with theory and ideas
103. 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
104. pral English	adj.	of or connected with actual use or real situation rather than with theory and ideas
105. stre and function of the brain	n.	the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
106. mog ceremony	adj.	causing strong emotions or feelings, especially sadness or sympathy

ANSWERS: 97. amazing, 98. wavelength, 99. wavy, 100. correspond, 101. pond, 102. practical, 103. mechanics, 104. practical, 105. structure, 106. moving

107. prle in business	n.	a fundamental law or truth that explains or controls how something happens or works
108. 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
109. idfy gene sequences	ν.	to recognize someone or something and say or prove who or what they are
110. ts the bottle into a trash can	ν.	to throw something carelessly with a light motion
111. visual meor	n.	a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
112. scientific cety	n.	the state of being certain
113. a gm-free environment	n.	a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
114. protic approach	adj.	characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
115. lactose resed diet	adj.	limited in extent, number, scope, or action, especially by official rules, laws, etc.
116. resed area	adj.	limited in extent, number, scope, or action, especially by official rules, laws, etc.

ANSWERS: 107. principle, 108. atom, 109. identify, 110. toss, 111. metaphor, 112. certainty, 113. germ, 114. probabilistic, 115. restricted, 116. restricted

- 117. virtue and v\_\_e
- 118. series of exp\_\_\_\_nts

- m. 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
- n. the scientific test conducted to observe what happens and gain new knowledge

ANSWERS: 117. vice, 118. experiment

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

1. n.	White color is made up of many different of light. the distance between two points in the same phase in consecutive cycles of a wave
2.	She expressed her thought in an artful choice of
n.	a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
3.	The had received a mild snowfall the previous week.
n.	a long depression on the surface of the land, which typically contains a river
4.	The golfer recorded an distance.
adj	extremely surprising, especially in a way that you like or admire
5.	The of getting the disease will drastically increase.
n.	a chance that something may happen or be true
6.	He tried to his experience to the group, but they couldn't understand.
v.	to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
7.	Hydrogen and oxygen to form water.
ν.	to join or merge to form a single thing or group
8.	The scientist conducted a study that provided details about the species' behavior.
adj	clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
	SWERS: 1. wavelengths, 2. metaphors, 3. valley, 4. amazing, 5. possibility, 6. ate, 7. combine, 8. specific

9.	She was about her friend's intentions.
adj	not being sure of something; not being able to choose
10.	The numbers on the sign to points on the map.
ν.	to match or be similar to something else almost exactly; to exchange messages
11.	Her concept is highly and helpful.
adj	of or connected with actual use or real situation rather than with theory and ideas
12.	When customers their reservations, they lose the deposit they made.
ν.	to decide that a previously scheduled activity will not take place
13.	Two students answered the teacher's question
adv	. at the same time
14.	Many businesses felt the effect of the economy's decline.
n.	a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind
15.	The marathon runner covered a long in a short amount of time.
n.	the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
16.	Cats hate dogs and versa.
n.	wrongdoing or wicked behavior; (in the form of vice versa) with the order reversed; (as a prefix) someone with a job immediately below a particular person
	SWERS: 9. uncertain, 10. correspond, 11. practical, 12. cancel, 13. ultaneously, 14. ripple, 15. distance, 16. vice

17. The country has designated our products as	import goods.
adj. limited in extent, number, scope, or action, especial	ly by official rules, laws, etc
18. Trial and error is an part of education.	
adj. indispensable; fundamental	
19. They hope to their business worldwide.	
v. to increase or to make something greater in size, nu	ımber, or importance
20. In times of recession, an increase in unemployment is	S
adj. certain to happen and unavoidable	
21. The outermost shell determines the chemic	cal properties of an atom.
n. a tiny particle with the negative electrical charge	
<ol><li>It is an incredible to climb Mount Everest, the hi world.</li></ol>	ghest mountain in the
<ul> <li>a notable or impressive achievement, especially one bravery</li> </ul>	e that requires great skill or
<ol><li>The recent in grain prices is partly due to the v countries.</li></ol>	var in the producing
n. a narrow, thin, pointed piece of metal, wood, etc.; a the magnitude or concentration of something	sudden large increase in
24. The model's hair was long and cascading dow	n her back in soft waves.
adj. characterized by a series of curves, undulations, or or serpentine appearance; not straight or flat	bends that create a rippled
ANSWERS: 17. restricted, 18. essential, 19. expand, 20. feat, 23. spike, 24. wavy,	inevitable, 21. electron, 22.

25.	His pleasant face turned cold in an				
adj.	happening immediately, with no delay				
26.	Parallel lines are, by lines on the same plane that never cross.				
n.	a concise explanation of the meaning of a word, phrase, or symbol				
	7. The freshwater was home to many different types of fish and was a popula spot for fishing.				
n.	a small, shallow lake				
28.	The of his idea came from watching birds flying in flocks.				
n.	a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one				
29.	Humankind took centuries to true democracy.				
<i>v</i> .	to finish or achieve something successfully				
30.	The number on the dial was 3.				
adj.	similar to, connected with, or accompanying something, especially in position o purpose				
31.	He studied in college and now works as an engineer.				
n.	the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles				
32.	It would be best if you out all those old magazines.				
<i>v</i> .	to throw something carelessly with a light motion				
	SWERS: 25. instant, 26. definition, 27. pond, 28. germ, 29. accomplish, 30. responding, 31. mechanics, 32. tossed				

ANSWERS: 33. mass, 34. graph, 35. identify, 36. particles, 37. principle, 38. velocity, 39. atom, 40. peak

ANSWERS: 41. universe, 42. detected, 43. physics, 44. packet, 45. certainty, 46. origin, 47. moving, 48. trillion, 49. criticism

50.	His showed highly positive results.		
n.	the scientific test conducted to observe what happens and gain new knowledge		
51.	Big techs are now eager to develop computers.		
n.	the smallest amount or unit of something, especially (electromagnetic) energy		
52.	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		
53.	Einstein was an outstanding and famous of the 20th century.		
n.	a scientist who specializes in the field of physics		
54.	The organizational of start-ups is often flat and straightforward.		
n.	the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts		
55.	Human behavior has characteristics.		
adj	forming an essential base or core from which everything else develops or is affected		
56.	We need to the aspect of his personality from the part of his competence when making an investment decision.		
<i>v</i> .	to force, take, or pull apart; mark as different		
57.	In a system, the outcome is uncertain and can vary based on chance.		
adj	characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks		
	SWERS: 50. experiments, 51. quantum, 52. represent, 53. physicist, 54. structure fundamental, 56. separate, 57. probabilistic		

58.	This building	construction causes serious	to residents
			10 1001001110

n. something that interrupts a settled and peaceful condition or that makes someone feel nervous or worried

59. Please \_\_\_\_\_ a different color to each other kind of item.

v. to give a specific job or piece of work to a someone

ANSWERS: 58. disturbance, 59. assign