

# Englist.me



## Vocabulary Builder Reference from...

*Renée Hlozek: The death of the universe | TED Talk*  
[https://www.ted.com/talks/renee\\_hlozek\\_the\\_death\\_of\\_the\\_universe](https://www.ted.com/talks/renee_hlozek_the_death_of_the_universe)

### All Words

#### IMPORTANT

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## Session 1: Word List

### amaze

*v.* to fill with wonder, surprise, or admiration

*synonym*: astound, surprise, stagger

(1) **amaze** and entertain visitors, (2) **amaze** everyone

The magician's tricks **amazed** the audience.

### cosmology

*n.* the scientific study of the nature and origin of the universe

*synonym*: cosmogony

(1) physical **cosmology**, (2) modern **cosmology**

**Cosmology** evolved from people's philosophical questions about the natural world.

### universe

*n.* 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.

### intimate

*adj.* having a very close friendship, personal

*synonym*: close, tight, friendly

(1) my **intimate** affairs, (2) **intimate** relationship

He has an **intimate** knowledge of American history.

## 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.

## relative

*adj.* considered and evaluated through comparison with something else

*synonym*: comparative, proximate, congeneric

(1) a remote **relative**, (2) **relative** factors

Most countries prohibit sexual activity between certain close **relatives**.

## equation

*n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign

(1) the **equation** of poverty with ignorance, (2) a chemical **equation**

In this class, you will learn how to solve quadratic **equations**.

## relation

*n.* the way two persons or groups of people feel and act toward one another

*synonym*: association, linkage, connection

(1) **relation** between cause and effect, (2) **relation** of inclusion

The industrial **relations** laws were passed with little to no alteration.

## curve

*n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape

*synonym*: bend, arc, turn

(1) learning **curve**, (2) yield **curve**

The **curve** in the road was so sharp that I had to slow down to navigate it safely.

## sphere

*n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity

*synonym* : ball, globe, scope

(1) **sphere** of influence, (2) business **sphere**

The **sphere** of the earth is divided into several layers including the crust, mantle, and core.

## posit

*v.* to suggest or accept something as fact or as a basis for argument or consideration

*synonym* : assert, declare, assume

(1) **posit** the existence of life after death, (2) **posit** the premise

We should **posit** several hypotheses to discuss the matter.

## saddle

*n.* a seat for a rider on the back of a horse or other animal; (verb) to burden someone with responsibility or task

*synonym* : seat, perch, mount

(1) bestride a **saddle**, (2) **saddle** his company with so much debt

He put the **saddle** on the horse before going for a ride.

## negative

*adj.* having the quality of something bad or harmful; expressing refusal

*synonym* : minus, adverse, pessimistic

(1) have a **negative** effect, (2) a **negative** number

The movie has received almost universally **negative** criticism.

## determinant

*n.* 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.

## component

*n.* one of several parts that combines with others to form something bigger

*synonym*: element, part, factor

(1) key **component**, (2) spare **components** for cars

The researchers try to discover a common **component** in all types of successful organizations.

## eventual

*adj.* expected to happen at a later time; likely to occur in the future

*synonym*: ultimate, final, last

(1) **eventual** outcome, (2) my **eventual** retirement

The **eventual** winner of the competition was a surprise to many.

## 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.

## density

*n.* the quality of compactness of a substance

*synonym*: tightness, viscosity

(1) population **density**, (2) higher pixel **density**

Do you know the **density** of the population in Hong Kong?

## planet

*n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

*synonym*: earth, world, globe

(1) **planet** like the Earth, (2) save the **planet**

Mercury is the closest **planet** to the sun.

## ordinary

*adj.* not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree

*synonym* : mundane, prosaic, average

(1) an **ordinary** school, (2) **ordinary** annual revenue

The **ordinary** session of the Diet opened.

## baryon

*n.* a subatomic particle, such as a proton or neutron, that is composed of three quarks and is responsible for the formation of atomic nuclei

*synonym* : particle, hadron, nucleon

(1) **baryon** number, (2) **baryon** resonance

The **baryon** density in the early universe is believed to have significantly impacted the formation of galaxies.

## interact

*v.* to communicate or react with somebody

*synonym* : cooperate, combine, collaborate

(1) **interact** directly with customers, (2) **interact** with one another

He should **interact** more with his colleagues.

## attract

*v.* to draw or entice someone or something towards them through the qualities they have, especially positive ones

*synonym* : lure, entice, draw in

(1) **attract** attention, (2) **attract** customers

The government is eager to **attract** international investment.

## gravitational

*adj.* relating to or caused by gravity (= the force that attracts objects towards one another)

*synonym* : weighty, heavy, earthbound

(1) **gravitational** energy, (2) **gravitational** waves

The **gravitational** force of the black hole was so strong that nothing, not even light, could escape.

## 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.

## interaction

*n.* the act of connecting with someone, mainly when working, playing, or spending time with them

*synonym*: dealings, exchange, relations

(1) the **interaction** between man and his environment,

(2) **interaction** among human beings

The **interaction** of the two groups is good for brainstorming.

## orbit

*n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels

*synonym*: path, course, trajectory

(1) the **orbit** of the moon, (2) a planetary **orbit**

The rocket engine is used to put the satellite into **orbit**.

## discovery

*n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known

*synonym*: finding, uncovering, detection

(1) a scientific **discovery**, (2) the great **discovery** of the century

Her research team made an important **discovery**.

## 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.

## elusive

*adj.* difficult to find, define, achieve, or remember

*synonym*: mysterious, ambiguous, inapproachable

(1) an **elusive** criminal, (2) track down an **elusive** fact

The physicist who found the **elusive** particle won the Nobel Prize.

## mysterious

*adj.* difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement

*synonym*: enigmatic, cryptic, puzzling

(1) **mysterious** object, (2) **mysterious** stranger

The **mysterious** disappearance of the ship remains unsolved.

## substance

*n.* the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug

*synonym*: essence, core, material

(1) an explosive **substance**, (2) **substance** abuse problem

The **substance** of the argument was well-presented.

## gravity

*n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn

*synonym*: heaviness, attraction, weight

(1) the attraction of **gravity**, (2) preserve my **gravity**

The astronaut felt weightless in space due to the absence of **gravity**.

## 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.

## constant

*adj.* happening repeatedly or all the time

*synonym*: ceaseless, stable, unchanging

(1) a **constant** wind, (2) a **constant** temperature

**Constant** dropping wears away the stone.

## property

*n.* a thing or things that belong to someone

*synonym*: belongings, possessions, equity

(1) a man of **property**, (2) chemical **property**

He stood to inherit a million-dollar **property**.

## volume

*n.* the amount of space occupied by an object or substance; the magnitude of sound

*synonym*: capacity, amount, intensity

(1) **volume** of work, (2) high **volume**

This container has a **volume** of 10 cubic meters.

## dilute

*v.* to make a substance less concentrated by adding a liquid or another substance to it

*synonym*: weaken, thin, reduce

(1) **dilute** acid with water, (2) **dilute** a great idea

She **diluted** the concentrated juice with water.

## 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.

## eventually

*adv.* finally, particularly after a long time or a lot of struggle, complications, and so on

*synonym*: finally, someday, ultimately

(1) **eventually** become obsolete, (2) **eventually** succeed

The corporation **eventually** dominated the entire tobacco business.

## fuel

*n.* a substance that is typically burned to generate heat or energy

*synonym*: energy, power, gas

(1) biomass **fuel**, (2) smokeless **fuel**

The **fuel** scarcity most severely impacted the manufacturing sector

## evaporate

*v.* to turn a liquid into a gas; to become less intense and disappear gradually



*synonym* : vaporize, disappear, vanish

(1) **evaporate** the water, (2) **evaporate** almost overnight  
The sun will **evaporate** the mist.

## depress

*v.* to make someone feel sad, low in spirits, or without hope; to make markets, businesses, etc., less active

*synonym* : sadden, discourage, deflate

(1) **depress** their spirits, (2) **depress** crop prices  
The economic recession **depressed** the housing market.

## lifetime

*n.* the duration of someone's life or something's existence;

*synonym* : lifespan, duration

(1) **lifetime** benefits, (2) **lifetime** ban from the sport  
She had lived through two world wars in her **lifetime**.

## devoid

*adj.* completely lacking or free from something

*synonym* : empty, lacking, void

(1) **devoid** of life, (2) air **devoid** of pollution  
The room was **devoid** of any furniture or decorations.

## symmetry

*n.* balance or proportion in design or structure, with elements arranged evenly on either side of an axis

*synonym* : balance, proportion, harmoniousness

(1) bilateral **symmetry**, (2) axial **symmetry**  
The building had a **symmetry** pattern that was pleasing to the eye.

## fiery

*adj.* very intense; like or suggestive of fire

*synonym* : igneous, passionate, fervent

(1) a **fiery** speech, (2) a **fiery** sunset  
He is a man of **fiery** temperament.

## 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.

## phase

*n.* any stage in a series of events, change, or development

*synonym*: degree, stage, step

(1) enter on the last **phase**, (2) two- **phase** structure

The era of the industrial revolution was a crucial **phase** of history.

## mathematics

*n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement

*synonym*: arithmetic, calculation, calculus

(1) a good grounding in **mathematics**, (2) **mathematics** competition

He has a flair for **mathematics**.

## expansion

*n.* the process of becoming larger or more extensive, or the result of this process

*synonym*: growth, enlargement, development

(1) industrial **expansion**, (2) **expansion** project

The company is undergoing an **expansion**, opening new locations in several states.

## inflation

*n.* a general and progressive increase in prices; (cosmology) a theory of the exponential expansion of space in the early universe; the act of filling something with air

*synonym*: increase, swelling, boom

(1) **inflation** control, (2) global **inflation**

Investment in index funds can often be a hedge against **inflation**.

## bang

*v.* to hit or cause to hit something in a way that makes a loud noise

*synonym*: crash, hit, smash

(1) **bang** his fist on a desk, (2) **bang** a phone down

My father tried to **bang** mathematics into my head since childhood.

## **extraordinary**

*adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual

*synonym*: exceptional, noteworthy, astonishing

(1) **extraordinary** ability, (2) **extraordinary** weather

He narrated the **extraordinary** story of his adventure.

## Session 2: Spelling

- |                            |  |
|----------------------------|--|
| 1. enter on the last ph__e | <i>n.</i> any stage in a series of events, change, or development  |
| 2. do____te over the weak  | <i>v.</i> to have or control a lot of power and influence over somebody or something   |
| 3. de____s crop prices     | <i>v.</i> to make someone feel sad, low in spirits, or without hope; to make markets, businesses, etc., less active  |
| 4. biomass f__l            | <i>n.</i> a substance that is typically burned to generate heat or energy  |
| 5. de____d of life         | <i>adj.</i> completely lacking or free from something  |
| 6. ext____ary ability      | <i>adj.</i> exceptional, unexpected, very unusual; surpassing the ordinary or usual  |
| 7. have a ne____ve effect  | <i>adj.</i> having the quality of something bad or harmful; expressing refusal   |
| 8. a ne____ve number       | <i>adj.</i> having the quality of something bad or harmful; expressing refusal   |
| 9. pr____t the future      | <i>v.</i> to state beforehand that something will happen in the future, mainly based on knowledge or experience  |
| 10. sp____e of influence   | <i>n.</i> a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity |
| 11. an explosive su____ce  | <i>n.</i> the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug           |

ANSWERS: 1. phase, 2. dominate, 3. depress, 4. fuel, 5. devoid, 6. extraordinary, 7. negative, 8. negative, 9. predict, 10. sphere, 11. substance

12. int\_\_\_\_\_on among human beings      *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
13. my ev\_\_\_\_\_al retirement      *adj.* expected to happen at a later time; likely to occur in the future
14. pr\_\_\_\_\_t when she will arrive      *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
15. bestride a sa\_\_\_\_\_e      *n.* a seat for a rider on the back of a horse or other animal; (verb) to burden someone with responsibility or task
16. de\_\_\_\_\_t a bad event      *v.* to find or recognize something, especially something difficult to see, hear, etc.
17. in\_\_\_\_\_ct directly with customers      *v.* to communicate or react with somebody
18. business sp\_\_\_\_\_e      *n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
19. a fi\_\_\_\_y speech      *adj.* very intense; like or suggestive of fire
20. theory of the un\_\_\_\_\_se      *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
21. a man of pr\_\_\_\_\_ty      *n.* a thing or things that belong to someone
22. re\_\_\_\_\_ve factors      *adj.* considered and evaluated through comparison with something else

ANSWERS: 12. interaction, 13. eventual, 14. predict, 15. saddle, 16. detect, 17. interact, 18. sphere, 19. fiery, 20. universe, 21. property, 22. relative

23. in\_\_\_\_\_te relationship *adj.* having a very close friendship, personal
24. learning cu\_\_e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
25. the great di\_\_\_\_\_ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
26. a remote re\_\_\_\_\_ve *adj.* considered and evaluated through comparison with something else
27. ex\_\_\_\_d agricultural output *v.* to increase or to make something greater in size, number, or importance
28. save the pl\_\_\_\_t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
29. the attraction of gr\_\_\_\_\_y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
30. environmental det\_\_\_\_\_nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
31. li\_\_\_\_\_me ban from the sport *n.* the duration of someone's life or something's existence;
32. eve\_\_\_\_\_ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on

ANSWERS: 23. intimate, 24. curve, 25. discovery, 26. relative, 27. expand, 28. planet, 29. gravity, 30. determinant, 31. lifetime, 32. eventually

33. global in\_\_\_\_\_on *n.* a general and progressive increase in prices; (cosmology) a theory of the exponential expansion of space in the early universe; the act of filling something with air
34. a co\_\_\_\_\_nt temperature *adj.* happening repeatedly or all the time
35. modern co\_\_\_\_\_gy *n.* the scientific study of the nature and origin of the universe
36. in\_\_\_\_\_on control *n.* a general and progressive increase in prices; (cosmology) a theory of the exponential expansion of space in the early universe; the act of filling something with air
37. a good grounding in mat\_\_\_\_\_cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
38. di\_\_\_e acid with water *v.* to make a substance less concentrated by adding a liquid or another substance to it
39. physical co\_\_\_\_\_gy *n.* the scientific study of the nature and origin of the universe
40. a scientific di\_\_\_\_\_ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
41. mat\_\_\_\_\_cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
42. acc\_\_\_\_\_te a chemical reaction *v.* to make something faster or earlier; to cause to develop or progress more quickly

ANSWERS: 33. inflation, 34. constant, 35. cosmology, 36. inflation, 37. mathematics, 38. dilute, 39. cosmology, 40. discovery, 41. mathematics, 42. accelerate

43. su\_\_\_\_\_ce abuse problem *n.* the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug
44. the or\_\_t of the moon *n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels
45. chemical pr\_\_\_\_\_ty *n.* a thing or things that belong to someone
46. am\_\_e and entertain visitors *v.* to fill with wonder, surprise, or admiration
47. gra\_\_\_\_\_nal waves *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
48. mys\_\_\_\_\_us stranger *adj.* difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement
49. industrial ex\_\_\_\_\_on *n.* the process of becoming larger or more extensive, or the result of this process
50. expansion of the un\_\_\_\_\_se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
51. yield cu\_\_e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape

ANSWERS: 43. substance, 44. orbit, 45. property, 46. amaze, 47. gravitational, 48. mysterious, 49. expansion, 50. universe, 51. curve



52. a det\_\_\_\_\_nt of crop yields      *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
53. charged pa\_\_\_\_\_le      *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
54. smokeless f\_\_l      *n.* a substance that is typically burned to generate heat or energy
55. gra\_\_\_\_\_nal energy      *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
56. de\_\_\_\_\_p a skill      *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
57. two-ph\_\_e structure      *n.* any stage in a series of events, change, or development
58. de\_\_\_\_\_s their spirits      *v.* to make someone feel sad, low in spirits, or without hope; to make markets, businesses, etc., less active
59. key co\_\_\_\_\_nt      *n.* one of several parts that combines with others to form something bigger
60. de\_\_\_\_\_p a strategy      *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 52. determinant, 53. particle, 54. fuel, 55. gravitational, 56. develop, 57. phase, 58. depress, 59. component, 60. develop

61. am\_\_e everyone                    *v.*    to fill with wonder, surprise, or admiration
62. po\_\_t the premise                *v.*    to suggest or accept something as fact or as a basis for argument or consideration
63. at\_\_\_\_t customers                *v.*    to draw or entice someone or something towards them through the qualities they have, especially positive ones
64. re\_\_\_\_on of inclusion            *n.*    the way two persons or groups of people feel and act toward one another
65. bilateral sy\_\_\_\_ry                *n.*    balance or proportion in design or structure, with elements arranged evenly on either side of an axis
66. re\_\_\_\_on between cause and effect    *n.*    the way two persons or groups of people feel and act toward one another
67. a fi\_\_y sunset                    *adj.* very intense; like or suggestive of fire
68. air de\_\_\_d of pollution            *adj.* completely lacking or free from something
69. preserve my gr\_\_\_\_y              *n.*    the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
70. high vo\_\_\_e                        *n.*    the amount of space occupied by an object or substance; the magnitude of sound
71. spare co\_\_\_\_nts for cars         *n.*    one of several parts that combines with others to form something bigger

ANSWERS: 61. amaze, 62. posit, 63. attract, 64. relation, 65. symmetry, 66. relation, 67. fiery, 68. devoid, 69. gravity, 70. volume, 71. component

72. ex\_\_\_\_\_on project *n.* the process of becoming larger or more extensive, or the result of this process
73. mys\_\_\_\_\_us object *adj.* difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement
74. axial sy\_\_\_\_\_ry *n.* balance or proportion in design or structure, with elements arranged evenly on either side of an axis
75. ba\_\_\_\_n resonance *n.* a subatomic particle, such as a proton or neutron, that is composed of three quarks and is responsible for the formation of atomic nuclei
76. a co\_\_\_\_\_nt wind *adj.* happening repeatedly or all the time
77. ext\_\_\_\_\_ary weather *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
78. ev\_\_\_\_\_te the water *v.* to turn a liquid into a gas; to become less intense and disappear gradually
79. higher pixel de\_\_\_\_\_y *n.* the quality of compactness of a substance
80. b\_\_g his fist on a desk *v.* to hit or cause to hit something in a way that makes a loud noise
81. a planetary or\_\_t *n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels
82. li\_\_\_\_\_me benefits *n.* the duration of someone's life or something's existence;

ANSWERS: 72. expansion, 73. mysterious, 74. symmetry, 75. baryon, 76. constant, 77. extraordinary, 78. evaporate, 79. density, 80. bang, 81. orbit, 82. lifetime

83. an or\_\_\_\_ry school *adj.* not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree
84. the eq\_\_\_\_\_on of poverty with ignorance *n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
85. ba\_\_\_\_n number *n.* a subatomic particle, such as a proton or neutron, that is composed of three quarks and is responsible for the formation of atomic nuclei
86. di\_\_\_\_e a great idea *v.* to make a substance less concentrated by adding a liquid or another substance to it
87. eve\_\_\_\_\_ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
88. po\_\_t the existence of life after death *v.* to suggest or accept something as fact or as a basis for argument or consideration
89. the int\_\_\_\_\_on between man and his environment *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
90. b\_\_g a phone down *v.* to hit or cause to hit something in a way that makes a loud noise
91. track down an el\_\_\_\_\_e fact *adj.* difficult to find, define, achieve, or remember
92. population de\_\_\_\_\_y *n.* the quality of compactness of a substance

ANSWERS: 83. ordinary, 84. equation, 85. baryon, 86. dilute, 87. eventually, 88. posit, 89. interaction, 90. bang, 91. elusive, 92. density

93. pa\_\_\_\_\_le energy *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
94. ev\_\_\_\_\_te almost overnight *v.* to turn a liquid into a gas; to become less intense and disappear gradually
95. pl\_\_\_\_t like the Earth *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
96. at\_\_\_\_\_t attention *v.* to draw or entice someone or something towards them through the qualities they have, especially positive ones
97. acc\_\_\_\_\_te the car *v.* to make something faster or earlier; to cause to develop or progress more quickly
98. do\_\_\_\_\_te possession *v.* to have or control a lot of power and influence over somebody or something
99. or\_\_\_\_\_ry annual revenue *adj.* not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree
100. de\_\_\_\_t smuggling across borders *v.* to find or recognize something, especially something difficult to see, hear, etc.
101. an el\_\_\_\_\_e criminal *adj.* difficult to find, define, achieve, or remember
102. ev\_\_\_\_\_al outcome *adj.* expected to happen at a later time; likely to occur in the future
103. a chemical eq\_\_\_\_\_on *n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign

ANSWERS: 93. particle, 94. evaporate, 95. planet, 96. attract, 97. accelerate, 98. dominate, 99. ordinary, 100. detect, 101. elusive, 102. eventual, 103. equation

104. sa\_\_\_e his company with so much  
debt      *n.* a seat for a rider on the back of a horse  
or other animal; (verb) to burden  
someone with responsibility or task
105. in\_\_\_\_ct with one another      *v.* to communicate or react with somebody
106. my in\_\_\_\_te affairs      *adj.* having a very close friendship, personal
107. ex\_\_\_d a lineup      *v.* to increase or to make something  
greater in size, number, or importance
108. vo\_\_\_e of work      *n.* the amount of space occupied by an  
object or substance; the magnitude of  
sound

ANSWERS: 104. saddle, 105. interact, 106. intimate, 107. expand, 108. volume

## 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. Do you know the \_\_\_\_\_ of the population in Hong Kong?  
*n.* the quality of compactness of a substance
3. The astronaut felt weightless in space due to the absence of \_\_\_\_\_.  
*n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
4. The \_\_\_\_\_ in the road was so sharp that I had to slow down to navigate it safely.  
*n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
5. Investment in index funds can often be a hedge against \_\_\_\_\_.  
*n.* a general and progressive increase in prices; (cosmology) a theory of the exponential expansion of space in the early universe; the act of filling something with air
6. He narrated the \_\_\_\_\_ story of his adventure.  
*adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
7. He stood to inherit a million-dollar \_\_\_\_\_.  
*n.* a thing or things that belong to someone
8. The \_\_\_\_\_ disappearance of the ship remains unsolved.  
*adj.* difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement

ANSWERS: 1. detected, 2. density, 3. gravity, 4. curve, 5. inflation, 6. extraordinary, 7. property, 8. mysterious

9. The corporation \_\_\_\_\_ dominated the entire tobacco business.  
*adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
10. The room was \_\_\_\_\_ of any furniture or decorations.  
*adj.* completely lacking or free from something
11. The era of the industrial revolution was a crucial \_\_\_\_\_ of history.  
*n.* any stage in a series of events, change, or development
12. The \_\_\_\_\_ of the two groups is good for brainstorming.  
*n.* the act of connecting with someone, mainly when working, playing, or spending time with them
13. Most countries prohibit sexual activity between certain close \_\_\_\_\_.  
*adj.* considered and evaluated through comparison with something else
14. In this class, you will learn how to solve quadratic \_\_\_\_\_.  
*n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
15. She \_\_\_\_\_ the concentrated juice with water.  
*v.* to make a substance less concentrated by adding a liquid or another substance to it
16. The company is undergoing an \_\_\_\_\_ opening new locations in several states.  
*n.* the process of becoming larger or more extensive, or the result of this process

ANSWERS: 9. eventually, 10. devoid, 11. phase, 12. interaction, 13. relatives, 14. equations, 15. diluted, 16. expansion,



17. The magician's tricks \_\_\_\_\_ the audience.

*v.* to fill with wonder, surprise, or admiration

18. He has an \_\_\_\_\_ knowledge of American history.

*adj.* having a very close friendship, personal

19. \_\_\_\_\_ dropping wears away the stone.

*adj.* happening repeatedly or all the time

20. The \_\_\_\_\_ scarcity most severely impacted the manufacturing sector

*n.* a substance that is typically burned to generate heat or energy

21. The \_\_\_\_\_ winner of the competition was a surprise to many.

*adj.* expected to happen at a later time; likely to occur in the future

22. The government is eager to \_\_\_\_\_ international investment.

*v.* to draw or entice someone or something towards them through the qualities they have, especially positive ones

23. 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

24. The rocket engine is used to put the satellite into \_\_\_\_\_.

*n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels

ANSWERS: 17. amazed, 18. intimate, 19. Constant, 20. fuel, 21. eventual, 22. attract, 23. particles, 24. orbit

25. The \_\_\_\_\_ force of the black hole was so strong that nothing, not even light, could escape.  
*adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
26. It's notoriously challenging to \_\_\_\_\_ birth rates.  
*v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
27. My father tried to \_\_\_\_\_ mathematics into my head since childhood.  
*v.* to hit or cause to hit something in a way that makes a loud noise
28. We should \_\_\_\_\_ several hypotheses to discuss the matter.  
*v.* to suggest or accept something as fact or as a basis for argument or consideration
29. The \_\_\_\_\_ session of the Diet opened.  
*adj.* not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree
30. Her research team made an important \_\_\_\_\_.  
*n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
31. The \_\_\_\_\_ of the argument was well-presented.  
*n.* the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug
32. The movie has received almost universally \_\_\_\_\_ criticism.  
*adj.* having the quality of something bad or harmful; expressing refusal

ANSWERS: 25. gravitational, 26. predict, 27. bang, 28. posit, 29. ordinary, 30. discovery, 31. substance, 32. negative

33. He is a man of \_\_\_\_\_ temperament.

*adj.* very intense; like or suggestive of fire

34. This container has a \_\_\_\_\_ of 10 cubic meters.

*n.* the amount of space occupied by an object or substance; the magnitude of sound

35. The economic recession \_\_\_\_\_ the housing market.

*v.* to make someone feel sad, low in spirits, or without hope; to make markets, businesses, etc., less active

36. 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

37. He has a flair for \_\_\_\_\_.

*n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement

38. We must \_\_\_\_\_ a new system to streamline our workflow and increase efficiency.

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

39. Mercury is the closest \_\_\_\_\_ to the sun.

*n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

ANSWERS: 33. fiery, 34. volume, 35. depressed, 36. determinant, 37. mathematics, 38. develop, 39. planet

40. The perspective of his right brain \_\_\_\_\_ his consciousness.  
*v.* to have or control a lot of power and influence over somebody or something
41. The \_\_\_\_\_ of the earth is divided into several layers including the crust, mantle, and core.  
*n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
42. The sun will \_\_\_\_\_ the mist.  
*v.* to turn a liquid into a gas; to become less intense and disappear gradually
43. The \_\_\_\_\_ is about 13.8 billion years old.  
*n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
44. She had lived through two world wars in her \_\_\_\_\_.  
*n.* the duration of someone's life or something's existence;
45. The government tried to \_\_\_\_\_ the commercialization of this development.  
*v.* to make something faster or earlier; to cause to develop or progress more quickly
46. The physicist who found the \_\_\_\_\_ particle won the Nobel Prize.  
*adj.* difficult to find, define, achieve, or remember
47. The researchers try to discover a common \_\_\_\_\_ in all types of successful organizations.  
*n.* one of several parts that combines with others to form something bigger

ANSWERS: 40. dominates, 41. sphere, 42. evaporate, 43. universe, 44. lifetime, 45. accelerate, 46. elusive, 47. component

48. The building had a \_\_\_\_\_ pattern that was pleasing to the eye.
- n.* balance or proportion in design or structure, with elements arranged evenly on either side of an axis
49. The \_\_\_\_\_ density in the early universe is believed to have significantly impacted the formation of galaxies.
- n.* a subatomic particle, such as a proton or neutron, that is composed of three quarks and is responsible for the formation of atomic nuclei
50. He put the \_\_\_\_\_ on the horse before going for a ride.
- n.* a seat for a rider on the back of a horse or other animal; (verb) to burden someone with responsibility or task
51. They hope to \_\_\_\_\_ their business worldwide.
- v.* to increase or to make something greater in size, number, or importance
52. \_\_\_\_\_ evolved from people's philosophical questions about the natural world.
- n.* the scientific study of the nature and origin of the universe
53. He should \_\_\_\_\_ more with his colleagues.
- v.* to communicate or react with somebody
54. The industrial \_\_\_\_\_ laws were passed with little to no alteration.
- n.* the way two persons or groups of people feel and act toward one another

ANSWERS: 48. symmetry, 49. baryon, 50. saddle, 51. expand, 52. Cosmology, 53. interact, 54. relations