

# Englist.me



## Vocabulary Builder Reference from...

Janna Levin: The sound the universe makes | TED Talk

[https://www.ted.com/talks/janna\\_levin\\_the\\_sound\\_the\\_universe\\_makes](https://www.ted.com/talks/janna_levin_the_sound_the_universe_makes)

### Advanced Words Only

#### IMPORTANT

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## Session 1: Word List

### rudimentary

*adj.* relating to basic facts or principles; fundamental

*synonym*: essential, fundamental, elementary

(1) a **rudimentary** plant, (2) **rudimentary** understanding

He has only a **rudimentary** knowledge of this topic.

### celestial

*adj.* relating to the sky or the heavens; of or like the sky or the heavens

*synonym*: heavenly, divine, ethereal

(1) **celestial** bliss, (2) **celestial** navigation

The **celestial** bodies in the night sky were beautiful to behold.

### wobble

*v.* to move or shake unsteadily from side to side or up and down

*synonym*: sway, rock, totter

(1) **wobble** a few steps, (2) **wobble** chair

The table **wobbled** a little when I put my drink on it.

### unfold

*v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown

*synonym*: open, spread out, expose

(1) **unfold** the story, (2) **unfold** the stroller

The mystery **unfolded** as the detectives gathered more

clues.

## spacetime

*n.* a four-dimensional continuum consisting of three dimensions of space and one dimension of time, used to describe the physical universe according to Einstein's theory of general relativity

(1) **spacetime** continuum, (2) quantum **spacetime**

The curvature of **spacetime** is affected by the presence of mass and energy.

## mallet

*n.* a tool used to strike or tap an object, typically with a wooden, rubber, or plastic head; a percussion instrument consisting of a handle and a head, often used in orchestral percussion and marimba

*synonym*: hammer, stick, beater

(1) percussion **mallet**, (2) lucky **mallet**

The percussionist switched from sticks to **mallets** for a softer sound.

## wreak

*v.* to cause or bring about something, often as a result of harmful or destructive actions or events

*synonym*: cause, inflict, bring about

(1) **wreak** a lot of changes, (2) **wreak** further damage

The virus has **wreaked** havoc on the healthcare system, overwhelming hospitals and causing shortages of supplies.

## havoc

*n.* widespread destruction or devastation, often caused by natural disasters, war, or other violent events

*synonym*: destruction, devastation, ruin

(1) cause **havoc**, (2) play **havoc** in the mind

The storm wreaked **havoc** on the town, causing widespread damage and power outages.

## churn

*v.* to stir or agitate a liquid, substance, or mixture vigorously to produce foam or because of violent movement; to cause a large number of people to move or leave; to produce something, such as money, through

continuous activity or turnover

*synonym* : stir, agitate, whirl

(1) **churn** out manufactured goods, (2) **churn** in my stomach

The cream needs to be **churned** for several minutes before it becomes butter.

## deflect

v. to cause something, especially a criticism or attack, to be directed away from someone

*synonym* : deter, redirect, sidetrack

(1) **deflect** a blow, (2) **deflect** his criticism

The soccer player was able to **deflect** the ball away from the goal.

## veer

v. to change direction suddenly or sharply; to turn or swerve from one course or direction to another

*synonym* : swerve, diverge, shift

(1) **veer** toward danger, (2) **veer** to the left

The car **veered** off the road and crashed into a tree.

## germ

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

*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.

## trench

n. a long, deep ditch made in the ground, usually parallel to a plate boundary and marking a subduction zone; a long ditch built in the ground for carrying away water

*synonym* : aqueduct, ditch, channel

(1) deep-sea **trench**, (2) **trench** excavator

A **trench** was being dug alongside the road by workers.

## ballistic

*adj.* relating to or resembling the motion or behavior of a projectile in flight; intensely angry or out of control

*synonym*: furious, explosive, enraged

(1) **ballistic** missile, (2) **ballistic** vest

The boss went **ballistic** when he found out we missed the deadline.

## trajectory

*n.* the curved path followed by an object moving through space

*synonym*: course, curve, orbit

(1) career **trajectory**, (2) a **trajectory** missile

The company has shown an excellent growth **trajectory** over the years.

## cannon

*n.* a large, heavy gun fired from a fixed position or mounted on a vehicle, used in warfare or hunting

*synonym*: artillery, gun, ordnance

(1) **cannon** salute, (2) **cannon** ball

The heavy **cannon** fired a loud shot that echoed across the battlefield.

## surmise

*v.* to guess or assume something based on incomplete or limited information; to make an educated guess or inference based on what is known

*synonym*: guess, conjecture, speculate

(1) **surmise** the truth, (2) **surmise** the situation

I can only **surmise** what happened while I was away.

## waterfall

*n.* a point in a river or stream where water falls from a high place, for example, over a cliff or rock

*synonym*: cascade, falls, rapids

(1) scenic **waterfall**, (2) a **waterfall** with a fall of ten feet

Years of river erosion have formed the uniquely shaped **waterfall** basin.

## gunfire

*n.* the sound or act of shooting a firearm; the noise created by multiple guns firing at the same time

*synonym* : gunshots, firing, shooting

(1) lethal **gunfire**, (2) burst of **gunfire**

The journalist heard the sound of **gunfire** while reporting in a war zone.

## hardworking

*adj.* tending to work with a lot of effort and care

*synonym* : diligent, dedicated, conscientious

(1) **hardworking** student, (2) retire from **hardworking** life

They sought candidates with **hardworking** and good-natured.

## oddity

*n.* something unusual or different

*synonym* : rarity, curiosity, peculiarity

(1) find an **oddity**, (2) genetic **oddity**

The two-headed snake was an **oddity** at the zoo.

## astrophysics

*n.* the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe

(1) **astrophysics** research, (2) neutrino **astrophysics**

He was studying **astrophysics** in an attempt to understand the origins of the universe.

## catastrophic

*adj.* extremely harmful; causing physical or financial destruction

*synonym* : fatal, disastrous, destructive

(1) victim of **catastrophic** injuries, (2) **catastrophic** climate change

The extinction rate of aquatic animals was **catastrophic**.

## illuminate

*v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity

*synonym* : brighten, light, adorn

(1) **illuminate** a dark hall, (2) **illuminate** my understanding

That biologist **illuminated** the mechanism of heredity.

## devour

*v.* to eat or consume something eagerly or ravenously; or to destroy something rapidly

*synonym*: consume, swallow, destroy

(1) **devour** a meal, (2) **devour** my way

She **devoured** the mystery novel in one sitting.

## vantage

*n.* a position or place that provides a commanding or advantageous view or perspective; a favorable position or advantage

*synonym*: advantage, benefit, edge

(1) strategic **vantage**, (2) gain a **vantage**

From our **vantage** point, we could see the whole city skyline.

## luminous

*adj.* emitting or reflecting light, especially in the dark; shining or glowing brightly; full of light or enlightenment

*synonym*: radiant, glowing, brilliant

(1) **luminous** glow, (2) **luminous** stars

The room was filled with **luminous** decorations that shone in the dark.

## relativism

*n.* the belief that truth, knowledge, or morality are not absolute or objective but instead relative to the context in which they are perceived or determined

*synonym*: subjectivism, skepticism

(1) linguistic **relativism**, (2) cultural **relativism**

Moral **relativism** suggests that there is no objective right or wrong.

## dilate

*v.* to make something wider, larger, or more open

*synonym*: widen, open, enlarge

(1) **dilate** the bronchial tubes, (2) **dilate** blood vessel

The pupils of the eyes **dilate** in low light.

## galactic

*adj.* relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or

cosmic in scope

*synonym* : cosmic, celestial, enormous

(1) **galactic** scale, (2) a **galactic** system

The Milky Way is a **galactic** collection of billions of stars and planets.

## emanate

*v.* to emit, send out something; to express a quality or feeling

*synonym* : radiate, exude, give off

(1) **emanate** light, (2) **emanate** happiness

The fragrance of flowers **emanated** from the garden.

## cosmos

*n.* another name for the universe, mainly used when it is thought of as an ordered system

*synonym* : universe, macrocosm

(1) exploration of **cosmos**, (2) origin of the **cosmos**

Supercomputers enable scientists to create computational models of the **cosmos**.

## 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.

## coalesce

*v.* to come together or merge into a single group, mass, or whole; to blend or combine elements or ideas into a unified whole

*synonym* : merge, combine, unite

(1) **coalesce** ideas, (2) **coalesce** with the other

The various departments of the company will **coalesce** into one cohesive unit.

## resonate

*v.* to be filled with a deep echoing sound

*synonym* : echo, reverberate, resound

(1) deeply **resonate** with the consumers, (2) **resonate** in the same frequency

The sound **resonates** well in this theater.

## unhelpful

*adj.* not providing assistance or support; not contributing to the solution of a problem or the achievement of a goal

*synonym*: useless, ineffective, detrimental

(1) **unhelpful** comments, (2) **unhelpful** for people

His **unhelpful** attitude made it difficult for the team to complete the project on time.

## glamorous

*adj.* highly attractive and exciting, and different from ordinary things or people

*synonym*: alluring, bewitching, enchanting

(1) **glamorous** movie stars, (2) cast **glamorous** eyes

The south coast is less **glamorous** yet has many clean and appealing hotels.

## thump

*v.* to strike or hit heavily or repeatedly, often with a dull, resonating sound; to pound or beat forcefully

*synonym*: beat, thud, pound

(1) **thump** on the back, (2) **thump** a blistering shot

I heard someone **thump** on the door, and when I opened it, no one was there.

## anticlimax

*n.* a disappointing or unfulfilling conclusion or event that is less exciting, impressive, or dramatic than expected; a sudden, often jarring reduction in intensity or excitement after a build-up or expectation

*synonym*: disappointment, letdown

(1) **anticlimax** moment, (2) **anticlimax** ending

The movie had an unexpected **anticlimax**, leaving the audience disappointed and confused.

## ding

*v.* to make a ringing, chiming, or knocking sound; to damage or dent a surface through impact or collision;  
(noun, Chinese) a type of ancient cooking vessel that



was used for cooking, boiling, and steaming food

*synonym*: hit, smack, bump

(1) **ding** a bell, (2) **ding** a ling

I accidentally **dinged** my new car door in the parking lot.

## chirp

*n.* a short, sharp sound that is made by birds or insects or by electronic devices such as alarms or beepers

*synonym*: tweet, chirrup, peep

(1) the **chirp** of a bird, (2) the **chirp** of a cricket

The sound of the **chirp** woke me up early in the morning.

## industrious

*adj.* hardworking, diligent, and persistent in effort

*synonym*: diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student

He was known to be very **industrious** and would often work late into the night.

## deviate

*v.* to depart from an established course or plan; to change direction or take a different route or approach

*synonym*: stray, diverge, veer

(1) **deviate** from the norm, (2) **deviate** from the plan

It's important not to **deviate** from the established safety procedures.

## collide

*v.* to hit something violently when moving

*synonym*: clash, slam, contradict

(1) **collide** head-on, (2) **collide** in midair

The interests of the two countries **collide**.

## deride

*v.* to ridicule or mock someone or something, often contemptuously or scornfully; to criticize or attack severely

*synonym*: mock, ridicule, scorn

(1) **deride** the loser, (2) **deride** his opinion

She knew he would **deride** her for her unconventional beliefs, but she shared them anyway.

## proton

*n.* a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms

(1) **proton** decay, (2) **proton** conductivity

The solar wind is composed almost entirely of electrons and **protons**.

## chaotic

*adj.* without any order or organization; extremely disorganized, unpredictable, and confusing

*synonym*: disorderly, cluttered, topsy-turvy

(1) the **chaotic** economic situation, (2) **chaotic** theory

Change is also occurring in Turkey as a result of **chaotic** reform.

## habitable

*adj.* able to be lived in, suitable or fit for living in, providing sufficient conditions for survival and well-being

*synonym*: inhabitable, livable, viable

(1) **habitable** planet, (2) **habitable** space

The astronauts discovered a potentially **habitable** planet in the neighboring galaxy.

## frantic

*adj.* marked by uncontrolled excitement or emotion; wild; frenzied

*synonym*: wild, frenzied, manic

(1) **frantic** pace, (2) with **frantic** haste

The mother was **frantic** as she searched for her lost child.

## writ

*n.* a written legal order or command

*synonym*: legal document, order, legal process

(1) a **writ** of summons, (2) issue a **writ**

He was served with a **writ** of eviction, giving him the notice to vacate the property.

## observable

*adj.* that can be noticed or seen

*synonym*: visible, perceptible, detectable

(1) **observable** change, (2) experimentally **observable**

Any theorem relies on both **observable** fact and assumption.

## 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.

## cacophonous

*adj.* producing a harsh, discordant, or unpleasant mixture of sounds; characterized by a loud and jarring noise

*synonym*: discordant, noisy, raucous

(1) **cacophonous** noise, (2) **cacophonous** city streets

The **cacophonous** chorus of the morning market created an overwhelming yet lively ambiance.

## reignite

*v.* to cause something to start burning again

*synonym*: rekindle, revive, renew

(1) **reignite** my interest, (2) **reignite** the spark

His speech **reignited** the passion of the crowd.

## evade

*v.* to escape from or avoid meeting someone or something

*synonym*: dodge, avoid, bypass

(1) **evade** capture, (2) **evade** an issue

The jailbroken criminal is continuously attempting to **evade** the cops.

## plume

*n.* a large feather or group of feathers worn as an ornament or a symbol of achievement or distinction, especially on a hat

*synonym*: feather, honor, token

(1) **plume** of smoke, (2) **plume** of feathers

The bird had a beautiful **plume** on its head.

## multiverse

*n.* a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them

(1) the **multiverse** hypothesis, (2) the concept of the

## **multiverse**

The various universes within the **multiverse** are sometimes called parallel universes.

## **sentient**

*adj.* having the ability to perceive or feel things, particularly through sense perception like touch or sight, especially at higher levels of intelligence and consciousness

*synonym* : conscious, aware, perceptive

(1) **sentient** beings, (2) **sentient** robots

Animals such as dolphins and elephants are highly **sentient** and intelligent creatures.

## Session 2: Spelling

1. un\_\_\_\_\_ul for people *adj.* not providing assistance or support; not contributing to the solution of a problem or the achievement of a goal
2. victim of cat\_\_\_\_\_hic injuries *adj.* extremely harmful; causing physical or financial destruction
3. the ch\_\_p of a cricket *n.* a short, sharp sound that is made by birds or insects or by electronic devices such as alarms or beepers
4. an el\_\_\_\_\_e criminal *adj.* difficult to find, define, achieve, or remember
5. ce\_\_\_\_\_al navigation *adj.* relating to the sky or the heavens; of or like the sky or the heavens
6. ant\_\_\_\_\_ax ending *n.* a disappointing or unfulfilling conclusion or event that is less exciting, impressive, or dramatic than expected; a sudden, often jarring reduction in intensity or excitement after a build-up or expectation
7. linguistic rel\_\_\_\_\_sm *n.* the belief that truth, knowledge, or morality are not absolute or objective but instead relative to the context in which they are perceived or determined
8. gra\_\_\_\_\_nal energy *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
9. de\_\_\_r my way *v.* to eat or consume something eagerly or ravenously; or to destroy something rapidly

ANSWERS: 1. unhelpful, 2. catastrophic, 3. chirp, 4. elusive, 5. celestial, 6. anticlimax, 7. relativism, 8. gravitational, 9. devour

10. retire from har\_\_\_\_\_ng life      *adj.* tending to work with a lot of effort and care
11. ga\_\_\_\_\_ic scale      *adj.* relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope
12. deeply re\_\_\_\_\_te with the consumers      *v.* to be filled with a deep echoing sound
13. wr\_\_k a lot of changes      *v.* to cause or bring about something, often as a result of harmful or destructive actions or events
14. un\_\_\_\_\_ul comments      *adj.* not providing assistance or support; not contributing to the solution of a problem or the achievement of a goal
15. ch\_\_n out manufactured goods      *v.* to stir or agitate a liquid, substance, or mixture vigorously to produce foam or because of violent movement; to cause a large number of people to move or leave; to produce something, such as money, through continuous activity or turnover
16. v\_\_r toward danger      *v.* to change direction suddenly or sharply; to turn or swerve from one course or direction to another
17. exploration of co\_\_\_\_s      *n.* another name for the universe, mainly used when it is thought of as an ordered system
18. ch\_\_\_\_\_c theory      *adj.* without any order or organization; extremely disorganized, unpredictable, and confusing

ANSWERS: 10. hardworking, 11. galactic, 12. resonate, 13. wreak, 14. unhelpful, 15. churn, 16. veer, 17. cosmos, 18. chaotic

19. de\_\_\_\_e from the plan *v.* to depart from an established course or plan; to change direction or take a different route or approach
20. em\_\_\_\_e happiness *v.* to emit, send out something; to express a quality or feeling
21. a wa\_\_\_\_\_ll with a fall of ten feet *n.* a point in a river or stream where water falls from a high place, for example, over a cliff or rock
22. percussion ma\_\_\_\_t *n.* a tool used to strike or tap an object, typically with a wooden, rubber, or plastic head; a percussion instrument consisting of a handle and a head, often used in orchestral percussion and marimba
23. ch\_\_n in my stomach *v.* to stir or agitate a liquid, substance, or mixture vigorously to produce foam or because of violent movement; to cause a large number of people to move or leave; to produce something, such as money, through continuous activity or turnover
24. un\_\_\_\_d the story *v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
25. genetic od\_\_\_\_y *n.* something unusual or different
26. d\_\_g a bell *v.* to make a ringing, chiming, or knocking sound; to damage or dent a surface through impact or collision; (noun, Chinese) a type of ancient cooking vessel that was used for cooking, boiling, and steaming food

ANSWERS: 19. deviate, 20. emanate, 21. waterfall, 22. mallet, 23. churn, 24. unfold, 25. oddity, 26. ding

27. neutrino ast\_\_\_\_\_ics      *n.* the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe
28. d\_\_g a ling      *v.* to make a ringing, chiming, or knocking sound; to damage or dent a surface through impact or collision; (noun, Chinese) a type of ancient cooking vessel that was used for cooking, boiling, and steaming food
29. 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
30. wo\_\_\_e chair      *v.* to move or shake unsteadily from side to side or up and down
31. pl\_\_e of feathers      *n.* a large feather or group of feathers worn as an ornament or a symbol of achievement or distinction, especially on a hat
32. har\_\_\_\_\_ng student      *adj.* tending to work with a lot of effort and care
33. co\_\_\_\_\_e in midair      *v.* to hit something violently when moving
34. rud\_\_\_\_\_ry understanding      *adj.* relating to basic facts or principles; fundamental
35. ha\_\_\_\_\_le space      *adj.* able to be lived in, suitable or fit for living in, providing sufficient conditions for survival and well-being

ANSWERS: 27. astrophysics, 28. ding, 29. germ, 30. wobble, 31. plume, 32. hardworking, 33. collide, 34. rudimentary, 35. habitable



36. a w\_\_t of summons *n.* a written legal order or command
37. un\_\_\_d the stroller *v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
38. se\_\_\_\_\_nt robots *adj.* having the ability to perceive or feel things, particularly through sense perception like touch or sight, especially at higher levels of intelligence and consciousness
39. pr\_\_\_n conductivity *n.* a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
40. th\_\_p a blistering shot *v.* to strike or hit heavily or repeatedly, often with a dull, resonating sound; to pound or beat forcefully
41. strategic va\_\_\_\_\_e *n.* a position or place that provides a commanding or advantageous view or perspective; a favorable position or advantage
42. the mul\_\_\_\_\_se hypothesis *n.* a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
43. pl\_\_e of smoke *n.* a large feather or group of feathers worn as an ornament or a symbol of achievement or distinction, especially on a hat
44. de\_\_\_\_\_t a blow *v.* to cause something, especially a criticism or attack, to be directed away from someone

ANSWERS: 36. writ, 37. unfold, 38. sentient, 39. proton, 40. thump, 41. vantage, 42. multiverse, 43. plume, 44. deflect

45. ba\_\_\_\_\_ic vest *adj.* relating to or resembling the motion or behavior of a projectile in flight; intensely angry or out of control
46. with fr\_\_\_\_\_c haste *adj.* marked by uncontrolled excitement or emotion; wild; frenzied
47. lu\_\_\_\_\_us glow *adj.* emitting or reflecting light, especially in the dark; shining or glowing brightly; full of light or enlightenment
48. scenic wa\_\_\_\_\_ll *n.* a point in a river or stream where water falls from a high place, for example, over a cliff or rock
49. ill\_\_\_\_\_te a dark hall *v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
50. cause ha\_\_c *n.* widespread destruction or devastation, often caused by natural disasters, war, or other violent events
51. ba\_\_\_\_\_ic missile *adj.* relating to or resembling the motion or behavior of a projectile in flight; intensely angry or out of control
52. fr\_\_\_\_\_c pace *adj.* marked by uncontrolled excitement or emotion; wild; frenzied
53. re\_\_\_\_\_te my interest *v.* to cause something to start burning again
54. burst of gu\_\_\_\_\_e *n.* the sound or act of shooting a firearm; the noise created by multiple guns firing at the same time
55. ind\_\_\_\_\_us worker *adj.* hardworking, diligent, and persistent in effort

ANSWERS: 45. ballistic, 46. frantic, 47. luminous, 48. waterfall, 49. illuminate, 50. havoc, 51. ballistic, 52. frantic, 53. reignite, 54. gunfire, 55. industrious

56. gra\_\_\_\_\_nal waves      *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
57. a g\_\_m-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
58. de\_\_\_\_\_e from the norm      *v.* to depart from an established course or plan; to change direction or take a different route or approach
59. wr\_\_k further damage      *v.* to cause or bring about something, often as a result of harmful or destructive actions or events
60. cat\_\_\_\_\_hic climate change      *adj.* extremely harmful; causing physical or financial destruction
61. lethal gu\_\_\_\_\_e      *n.* the sound or act of shooting a firearm; the noise created by multiple guns firing at the same time
62. de\_\_\_r a meal      *v.* to eat or consume something eagerly or ravenously; or to destroy something rapidly
63. de\_\_\_\_\_t his criticism      *v.* to cause something, especially a criticism or attack, to be directed away from someone
64. cac\_\_\_\_\_us noise      *adj.* producing a harsh, discordant, or unpleasant mixture of sounds; characterized by a loud and jarring noise
65. ha\_\_\_\_\_le planet      *adj.* able to be lived in, suitable or fit for living in, providing sufficient conditions for survival and well-being

ANSWERS: 56. gravitational, 57. germ, 58. deviate, 59. wreak, 60. catastrophic, 61. gunfire, 62. devour, 63. deflect, 64. cacophonous, 65. habitable

66. ant\_\_\_\_\_ax moment *n.* a disappointing or unfulfilling conclusion or event that is less exciting, impressive, or dramatic than expected; a sudden, often jarring reduction in intensity or excitement after a build-up or expectation
67. origin of the co\_\_\_\_s *n.* another name for the universe, mainly used when it is thought of as an ordered system
68. track down an el\_\_\_\_\_e fact *adj.* difficult to find, define, achieve, or remember
69. cast gl\_\_\_\_\_us eyes *adj.* highly attractive and exciting, and different from ordinary things or people
70. su\_\_\_\_\_e the truth *v.* to guess or assume something based on incomplete or limited information; to make an educated guess or inference based on what is known
71. career tra\_\_\_\_\_ry *n.* the curved path followed by an object moving through space
72. re\_\_\_\_\_te in the same frequency *v.* to be filled with a deep echoing sound
73. issue a w\_\_t *n.* a written legal order or command
74. gain a va\_\_\_\_\_e *n.* a position or place that provides a commanding or advantageous view or perspective; a favorable position or advantage
75. quantum sp\_\_\_\_\_me *n.* a four-dimensional continuum consisting of three dimensions of space and one dimension of time, used to describe the physical universe according to Einstein's theory of general relativity

ANSWERS: 66. anticlimax, 67. cosmos, 68. elusive, 69. glamorous, 70. surmise, 71. trajectory, 72. resonate, 73. writ, 74. vantage, 75. spacetime

76. co\_\_\_\_ce ideas                    *v.*    to come together or merge into a single group, mass, or whole; to blend or combine elements or ideas into a unified whole
77. re\_\_\_\_te the spark                *v.*    to cause something to start burning again
78. ev\_\_e capture                    *v.*    to escape from or avoid meeting someone or something
79. sp\_\_\_\_\_me continuum            *n.*    a four-dimensional continuum consisting of three dimensions of space and one dimension of time, used to describe the physical universe according to Einstein's theory of general relativity
80. v\_\_r to the left                    *v.*    to change direction suddenly or sharply; to turn or swerve from one course or direction to another
81. a ga\_\_\_\_ic system                *adj.* relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope
82. su\_\_\_\_e the situation              *v.*    to guess or assume something based on incomplete or limited information; to make an educated guess or inference based on what is known
83. the ch\_\_p of a bird                *n.*    a short, sharp sound that is made by birds or insects or by electronic devices such as alarms or beepers
84. ca\_\_\_\_n salute                    *n.*    a large, heavy gun fired from a fixed position or mounted on a vehicle, used in warfare or hunting

ANSWERS: 76. coalesce, 77. reignite, 78. evade, 79. spacetime, 80. veer, 81. galactic, 82. surmise, 83. chirp, 84. cannon



96. ce\_\_\_\_\_al bliss *adj.* relating to the sky or the heavens; of or like the sky or the heavens
97. lucky ma\_\_\_\_t *n.* a tool used to strike or tap an object, typically with a wooden, rubber, or plastic head; a percussion instrument consisting of a handle and a head, often used in orchestral percussion and marimba
98. a tra\_\_\_\_\_ry missile *n.* the curved path followed by an object moving through space
99. cac\_\_\_\_\_us city streets *adj.* producing a harsh, discordant, or unpleasant mixture of sounds; characterized by a loud and jarring noise
100. em\_\_\_\_\_e light *v.* to emit, send out something; to express a quality or feeling
101. th\_\_p on the back *v.* to strike or hit heavily or repeatedly, often with a dull, resonating sound; to pound or beat forcefully
102. di\_\_\_e the bronchial tubes *v.* to make something wider, larger, or more open
103. lu\_\_\_\_\_us stars *adj.* emitting or reflecting light, especially in the dark; shining or glowing brightly; full of light or enlightenment
104. ca\_\_\_n ball *n.* a large, heavy gun fired from a fixed position or mounted on a vehicle, used in warfare or hunting
105. the concept of the mul\_\_\_\_\_se *n.* a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them

ANSWERS: 96. celestial, 97. mallet, 98. trajectory, 99. cacophonous, 100. emanate, 101. thump, 102. dilate, 103. luminous, 104. cannon, 105. multiverse

106. wo\_\_\_e a few steps      *v.* to move or shake unsteadily from side to side or up and down
107. de\_\_\_e his opinion      *v.* to ridicule or mock someone or something, often contemptuously or scornfully; to criticize or attack severely
108. pr\_\_\_n decay      *n.* a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
109. tr\_\_\_h excavator      *n.* a long, deep ditch made in the ground, usually parallel to a plate boundary and marking a subduction zone; a long ditch built in the ground for carrying away water
110. de\_\_\_e the loser      *v.* to ridicule or mock someone or something, often contemptuously or scornfully; to criticize or attack severely
111. cultural rel\_\_\_\_\_sm      *n.* the belief that truth, knowledge, or morality are not absolute or objective but instead relative to the context in which they are perceived or determined
112. ind\_\_\_\_\_us student      *adj.* hardworking, diligent, and persistent in effort
113. find an od\_\_\_y      *n.* something unusual or different
114. a rud\_\_\_\_\_ry plant      *adj.* relating to basic facts or principles; fundamental
115. deep-sea tr\_\_\_h      *n.* a long, deep ditch made in the ground, usually parallel to a plate boundary and marking a subduction zone; a long ditch built in the ground for carrying away water

ANSWERS: 106. wobble, 107. deride, 108. proton, 109. trench, 110. deride, 111. relativism, 112. industrious, 113. oddity, 114. rudimentary, 115. trench



116. the ch\_\_\_\_c economic situation

*adj.* without any order or organization;  
extremely disorganized, unpredictable,  
and confusing

ANSWERS: 116. chaotic

## Session 3: Fill in the Blanks

1. His speech \_\_\_\_\_ the passion of the crowd.  
*v.* to cause something to start burning again
2. The various universes within the \_\_\_\_\_ are sometimes called parallel universes.  
*n.* a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
3. That biologist \_\_\_\_\_ the mechanism of heredity.  
*v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
4. A \_\_\_\_\_ was being dug alongside the road by workers.  
*n.* a long, deep ditch made in the ground, usually parallel to a plate boundary and marking a subduction zone; a long ditch built in the ground for carrying away water
5. The table \_\_\_\_\_ a little when I put my drink on it.  
*v.* to move or shake unsteadily from side to side or up and down
6. I accidentally \_\_\_\_\_ my new car door in the parking lot.  
*v.* to make a ringing, chiming, or knocking sound; to damage or dent a surface through impact or collision; (noun, Chinese) a type of ancient cooking vessel that was used for cooking, boiling, and steaming food
7. The pupils of the eyes \_\_\_\_\_ in low light.  
*v.* to make something wider, larger, or more open

ANSWERS: 1. reignited, 2. multiverse, 3. illuminated, 4. trench, 5. wobbled, 6. dinged, 7. dilate

8. The extinction rate of aquatic animals was \_\_\_\_\_.
- adj.* extremely harmful; causing physical or financial destruction
9. The physicist who found the \_\_\_\_\_ particle won the Nobel Prize.
- adj.* difficult to find, define, achieve, or remember
10. The virus has \_\_\_\_\_ havoc on the healthcare system, overwhelming hospitals and causing shortages of supplies.
- v.* to cause or bring about something, often as a result of harmful or destructive actions or events
11. Years of river erosion have formed the uniquely shaped \_\_\_\_\_ basin.
- n.* a point in a river or stream where water falls from a high place, for example, over a cliff or rock
12. The heavy \_\_\_\_\_ fired a loud shot that echoed across the battlefield.
- n.* a large, heavy gun fired from a fixed position or mounted on a vehicle, used in warfare or hunting
13. The storm wreaked \_\_\_\_\_ on the town, causing widespread damage and power outages.
- n.* widespread destruction or devastation, often caused by natural disasters, war, or other violent events
14. He was studying \_\_\_\_\_ in an attempt to understand the origins of the universe.
- n.* the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe

ANSWERS: 8. catastrophic, 9. elusive, 10. wreaked, 11. waterfall, 12. cannon, 13. havoc, 14. astrophysics

15. The Milky Way is a \_\_\_\_\_ collection of billions of stars and planets.

*adj.* relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope

16. 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

17. The bird had a beautiful \_\_\_\_\_ on its head.

*n.* a large feather or group of feathers worn as an ornament or a symbol of achievement or distinction, especially on a hat

18. The solar wind is composed almost entirely of electrons and \_\_\_\_\_.

*n.* a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms

19. The cream needs to be \_\_\_\_\_ for several minutes before it becomes butter.

*v.* to stir or agitate a liquid, substance, or mixture vigorously to produce foam or because of violent movement; to cause a large number of people to move or leave; to produce something, such as money, through continuous activity or turnover

20. Supercomputers enable scientists to create computational models of the \_\_\_\_\_.

*n.* another name for the universe, mainly used when it is thought of as an ordered system

21. The curvature of \_\_\_\_\_ is affected by the presence of mass and energy.

*n.* a four-dimensional continuum consisting of three dimensions of space and one dimension of time, used to describe the physical universe according to Einstein's theory of general relativity

ANSWERS: 15. galactic, 16. germ, 17. plume, 18. protons, 19. churned, 20. cosmos, 21. spacetime

22. Change is also occurring in Turkey as a result of \_\_\_\_\_ reform.

*adj.* without any order or organization; extremely disorganized, unpredictable, and confusing

23. They sought candidates with \_\_\_\_\_ and good-natured.

*adj.* tending to work with a lot of effort and care

24. The sound of the \_\_\_\_\_ woke me up early in the morning.

*n.* a short, sharp sound that is made by birds or insects or by electronic devices such as alarms or beepers

25. His \_\_\_\_\_ attitude made it difficult for the team to complete the project on time.

*adj.* not providing assistance or support; not contributing to the solution of a problem or the achievement of a goal

26. 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)

27. The interests of the two countries \_\_\_\_\_.

*v.* to hit something violently when moving

28. The soccer player was able to \_\_\_\_\_ the ball away from the goal.

*v.* to cause something, especially a criticism or attack, to be directed away from someone

29. The percussionist switched from sticks to \_\_\_\_\_ for a softer sound.

*n.* a tool used to strike or tap an object, typically with a wooden, rubber, or plastic head; a percussion instrument consisting of a handle and a head, often used in orchestral percussion and marimba

ANSWERS: 22. chaotic, 23. hardworking, 24. chirp, 25. unhelpful, 26. gravitational, 27. collide, 28. deflect, 29. mallets

30. The fragrance of flowers \_\_\_\_\_ from the garden.  
*v.* to emit, send out something; to express a quality or feeling
31. He was known to be very \_\_\_\_\_ and would often work late into the night.  
*adj.* hardworking, diligent, and persistent in effort
32. He was served with a \_\_\_\_\_ of eviction, giving him the notice to vacate the property.  
*n.* a written legal order or command
33. The two-headed snake was an \_\_\_\_\_ at the zoo.  
*n.* something unusual or different
34. The jailbroken criminal is continuously attempting to \_\_\_\_\_ the cops.  
*v.* to escape from or avoid meeting someone or something
35. The mystery \_\_\_\_\_ as the detectives gathered more clues.  
*v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
36. The \_\_\_\_\_ chorus of the morning market created an overwhelming yet lively ambiance.  
*adj.* producing a harsh, discordant, or unpleasant mixture of sounds; characterized by a loud and jarring noise
37. The movie had an unexpected \_\_\_\_\_ leaving the audience disappointed and confused.  
*n.* a disappointing or unfulfilling conclusion or event that is less exciting, impressive, or dramatic than expected; a sudden, often jarring reduction in intensity or excitement after a build-up or expectation

ANSWERS: 30. emanated, 31. industrious, 32. writ, 33. oddity, 34. evade, 35. unfolded, 36. cacophonous, 37. anticlimax,

38. The various departments of the company will \_\_\_\_\_ into one cohesive unit.  
*v.* to come together or merge into a single group, mass, or whole; to blend or combine elements or ideas into a unified whole
39. It's important not to \_\_\_\_\_ from the established safety procedures.  
*v.* to depart from an established course or plan; to change direction or take a different route or approach
40. The astronauts discovered a potentially \_\_\_\_\_ planet in the neighboring galaxy.  
*adj.* able to be lived in, suitable or fit for living in, providing sufficient conditions for survival and well-being
41. The south coast is less \_\_\_\_\_ yet has many clean and appealing hotels.  
*adj.* highly attractive and exciting, and different from ordinary things or people
42. Any theorem relies on both \_\_\_\_\_ fact and assumption.  
*adj.* that can be noticed or seen
43. The sound \_\_\_\_\_ well in this theater.  
*v.* to be filled with a deep echoing sound
44. The \_\_\_\_\_ bodies in the night sky were beautiful to behold.  
*adj.* relating to the sky or the heavens; of or like the sky or the heavens
45. Moral \_\_\_\_\_ suggests that there is no objective right or wrong.  
*n.* the belief that truth, knowledge, or morality are not absolute or objective but instead relative to the context in which they are perceived or determined

ANSWERS: 38. coalesce, 39. deviate, 40. habitable, 41. glamorous, 42. observable, 43. resonates, 44. celestial, 45. relativism

46. He has only a \_\_\_\_\_ knowledge of this topic.

*adj.* relating to basic facts or principles; fundamental

47. The journalist heard the sound of \_\_\_\_\_ while reporting in a war zone.

*n.* the sound or act of shooting a firearm; the noise created by multiple guns firing at the same time

48. The boss went \_\_\_\_\_ when he found out we missed the deadline.

*adj.* relating to or resembling the motion or behavior of a projectile in flight; intensely angry or out of control

49. The room was filled with \_\_\_\_\_ decorations that shone in the dark.

*adj.* emitting or reflecting light, especially in the dark; shining or glowing brightly; full of light or enlightenment

50. From our \_\_\_\_\_ point, we could see the whole city skyline.

*n.* a position or place that provides a commanding or advantageous view or perspective; a favorable position or advantage

51. She \_\_\_\_\_ the mystery novel in one sitting.

*v.* to eat or consume something eagerly or ravenously; or to destroy something rapidly

52. The mother was \_\_\_\_\_ as she searched for her lost child.

*adj.* marked by uncontrolled excitement or emotion; wild; frenzied

53. I heard someone \_\_\_\_\_ on the door, and when I opened it, no one was there.

*v.* to strike or hit heavily or repeatedly, often with a dull, resonating sound; to pound or beat forcefully

ANSWERS: 46. rudimentary, 47. gunfire, 48. ballistic, 49. luminous, 50. vantage, 51. devoured, 52. frantic, 53. thump



54. Animals such as dolphins and elephants are highly \_\_\_\_\_ and intelligent creatures.

*adj.* having the ability to perceive or feel things, particularly through sense perception like touch or sight, especially at higher levels of intelligence and consciousness

55. The company has shown an excellent growth \_\_\_\_\_ over the years.

*n.* the curved path followed by an object moving through space

56. She knew he would \_\_\_\_\_ her for her unconventional beliefs, but she shared them anyway.

*v.* to ridicule or mock someone or something, often contemptuously or scornfully; to criticize or attack severely

57. The car \_\_\_\_\_ off the road and crashed into a tree.

*v.* to change direction suddenly or sharply; to turn or swerve from one course or direction to another

58. I can only \_\_\_\_\_ what happened while I was away.

*v.* to guess or assume something based on incomplete or limited information; to make an educated guess or inference based on what is known

ANSWERS: 54. sentient, 55. trajectory, 56. deride, 57. veered, 58. surmise