

# Englist.me



## Vocabulary Builder Reference from...

Brian Greene: Is our universe the only universe? |

TED Talk

[https://www.ted.com/talks/brian\\_greene\\_is\\_our\\_universe\\_the\\_only\\_universe](https://www.ted.com/talks/brian_greene_is_our_universe_the_only_universe)

### Advanced Words Only

#### IMPORTANT

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## Session 1: Word List

### astronomer

*n.* a physicist who studies astronomy

*synonym*: stargazer, cosmologist, astrophysicist

(1) amateur **astronomer**, (2) solar **astronomer**

This question has fascinated solar **astronomers** for decades.

### hail

*v.* to call out to someone to get their attention, often from a distance; to greet or welcome someone, especially with enthusiasm or admiration; (noun) precipitation in the form of small balls or lumps of ice that fall from the sky

*synonym*: greet, salute, welcome

(1) **hail** the victorious team with cheers, (2) **hail** forecast

People in the area were forced to **hail** a taxi due to the lack of public transportation options.

### astronomical

*adj.* relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude

*synonym*: huge, vast, enormous

(1) **astronomical** observation, (2) **astronomical** numbers

The cost of the new equipment was **astronomical** and beyond the company's budget.

## 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.

## forethought

*n.* the act of thinking about and planning for the future  
*synonym*: planning, preparation, anticipation

(1) without **forethought** and planning, (2) **forethought** in decision making

He brought a map and compass with **forethought** in case he got lost on the hike.

## anomalous

*adj.* deviating from what is standard or expected; unexpected or unusual in a way that is difficult to explain

*synonym*: unusual, peculiar, abnormal

(1) **anomalous** behavior, (2) **anomalous** result

The data from the study was **anomalous** and unexpected.

## upbringing

*n.* the conditions and experiences in which a child is cared for and taught, especially in relation to their moral and social development

*synonym*: childhood, background, nurturing

(1) Catholic **upbringing**, (2) family **upbringing**

His strict **upbringing** instilled in him a strong sense of responsibility.

## speculate

*v.* to form a theory or conjecture or guess about a subject without solid evidence

*synonym*: assume, conjecture, infer

(1) **speculate** about the reason, (2) **speculate** on the outcome

He **speculated** that this investment would lead to success.

## rev

*n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute

(RPM); (verb) to increase the number of rotations per minute

*synonym* : revolution, RPM, speed

(1) low- **rev** engine, (2) **rev** up the crowd

He stepped on the gas pedal, and the engine released a loud **rev**.

## 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.

## 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.

## ascent

*n.* the act of climbing or moving upwards, often referring to a physical ascent of a mountain or a spiritual ascent or improvement; an upward movement; the process of moving upwards

*synonym* : climb, rise, hike

(1) spiritual **ascent**, (2) the **ascent** of a rocket

The hikers experienced a difficult **ascent** to the summit due to the steep and rocky terrain.

## outset

*n.* the beginning of something

*synonym* : beginning, start, initiation

(1) month's **outset**, (2) the **outset** of the crisis

At the **outset** of the project, we encountered several obstacles.

## painstaking

*adj.* cautious and correct, and requiring a significant amount of effort

*synonym* : detailed, meticulous, conscientious

(1) **painstaking** research, (2) a **painstaking** student

The training of a hawk was a **painstaking** process.

## quicken

*v.* to make or become faster or more rapid; to accelerate or speed up; to stimulate or stimulate something to happen or occur more quickly

*synonym* : accelerate, hasten, speed up

(1) **quicken** the process, (2) **quicken** heart rate

I need to **quicken** my pace to finish this project on time.

## repulsive

*adj.* causing strong dislike or disgust; offensive, unpleasant, or grotesque; resisting or rejecting contact or influence

*synonym* : disgusting, revolting, repugnant

(1) **repulsive** smell, (2) **repulsive** act

The politician's rhetoric was so **repulsive** that many people refused to vote for him.

## infuse

*v.* to fill something with a particular quality, feeling, or influence; to imbue

*synonym* : instill, fill, permeate

(1) **infuse** with spirit, (2) **infuse** life with meaning

She **infused** fresh herbs into the soup for added flavor.

## uncharted

*adj.* not mapped or surveyed; unknown or unexplored; without a clear or definite course of action

*synonym* : unknown, unexplored, undiscovered

(1) **uncharted** wilderness, (2) **uncharted** waters

The explorer ventured into **uncharted** territory, not knowing what to expect.

## headway

*n.* forward movement or progress made despite obstacles or resistance; clearance or space in which to move forward

*synonym* : progress, advancement, improvement

(1) lack of **headway**, (2) gain **headway**

We are making **headway** in our research and hope to have some significant findings soon.

### overarch

*v.* to be central or dominant; to form an arch over

(1) **overarched** the road, (2) **overarch** the stream

This scene **overarches** the entire first act.

### vibrate

*v.* to move or cause anything to move fast and in small increments from side to side

*synonym*: oscillate, convulse, jerk

(1) **vibrate** at a regular frequency, (2) **vibrate** with anger

During the flight, the wings of the plane **vibrate**.

### filament

*n.* a thin wire or thread, especially one used to produce light in an electric bulb

*synonym*: fiber, thread, filament

(1) **filament** lamp, (2) carbon **filament**

The **filament** in the light bulb burned out, and now it's not working.

### quark

*n.* a type of elementary particle and a fundamental constituent of matter that make up the heavier elementary particles, such as protons, neutrons, etc.; fresh unripened cheese of a smooth texture made from pasteurized milk, a starter, and rennet

(1) **quark** physics, (2) the antiparticle of a **quark**

The Big Bang theory states that **quark-gluon** plasma filled the entire universe before matter as we know it was created.

### neutrino

*n.* a very small and electrically neutral particle with a very small mass that rarely reacts with other matter

(1) **neutrino** capture, (2) sterile **neutrinos**

This laboratory has a pool consisting of thousands of **neutrino** detectors.

## symphony

*n.* a long musical composition in Western classical music for orchestra, usually with three or four main parts called movements

*synonym* : orchestra, harmony, concert

(1) a **symphony** orchestra, (2) a beautiful **symphony**

The frequent performances of the **symphony** prove its popularity.

## crumple

*v.* to collapse or crumple into a disordered or wrinkled mass; to fall apart or lose strength suddenly; to become emotionally distressed or overwhelmed

*synonym* : crinkle, crush, mash

(1) **crumple** paper, (2) **crumple** clothes

The car **crumpled** after colliding with the tree.

## constrain

*v.* to restrict or limit someone or something's freedom or ability to do something

*synonym* : restrict, limit, confine

(1) **constrain** his freedom, (2) **constrain** information flow

The political situation **constrained** the country's economic growth and foreign relations.

## 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.

## soar

*v.* to fly or rise very high or to a great height, often with great grace or ease

*synonym* : fly, rise, ascend

(1) **soar** in popularity, (2) **soar** to new heights

The bird **soared** through the sky, and its wings spread wide.

## clump

*n.* a small group of bushes, trees, flowers, people, etc.  
*synonym* : cluster, bunch, bundle

(1) **clump** of bacteria, (2) a **clump** of trees

I heard the **clump** of his boots in the hallway.

## hospitable

*adj.* friendly and generous to visitors or guests

*synonym* : benevolent, generous, gracious

(1) **hospitable** environment, (2) a **hospitable** welcome

He is a good-natured and **hospitable** man.

## unsatisfying

*adj.* not fulfilling someone's desires, expectations, or needs; incomplete or inadequate.

*synonym* : disappointing, dissatisfying, subpar

(1) **unsatisfying** labor, (2) **unsatisfying** reality

The meal was **unsatisfying** and left her feeling hungry an hour later.

## misguided

*adj.* having or showing a wrong or mistaken understanding of a situation or course of action

*synonym* : mistaken, wrong, erring

(1) **misguided** policies, (2) a **misguided** sense of duty

His **misguided** attempt to fix the problem only made it worse.

## obsess

*v.* to fill the mind of someone continually so that one can't think of anything else

*synonym* : torment, beset, engross

(1) **obsess** over her weight, (2) he is **obsessed** with the fear

He's utterly **obsessed** with his promotion.

## meld

*v.* to combine or blend, especially in a way that produces a harmonious or unified whole; to merge or fuse

*synonym* : blend, merge, combine

(1) **meld** business and pleasure, (2) **meld** physics with life science

The chef **melded** the flavors of the spice blend to create the

perfect marinade.

## 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**.

## jitter

*n.* a slight and rapid irregular movement or trembling; a sensation of nervousness or unease; a technical term relating to variations in the timing of signals in electronic systems

*synonym*: nervousness, trembling, shakiness

(1) **jitter** noise, (2) **jittery** feeling

The caffeine in my coffee causes me to experience nervous **jitter**.

## fingerprint

*n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person

*synonym*: print, mark, impression

(1) **fingerprint** at a crime scene, (2) **fingerprint** identification

The police used a **fingerprint** scanner to identify the suspect.

## 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**.

## pinpoint

*v.* to locate or identify the exact position in space or time of something

*synonym*: name, direct, identify

(1) **pinpoint** the problem, (2) **pinpoint** signs of manipulation

This radar quickly **pinpoints** the position of the enemy.



## starlight

*n.* the light emitted or reflected by stars, often observed in the night sky; the radiant energy emitted by stars

*synonym*: twinkle, starshine, stardust

(1) **starlight** sky, (2) romantic **starlight**

The romantic couple had a picnic under the **starlight**.

## emit

*v.* to give off or send out something such as light, heat, sound, gas, etc.

*synonym*: give off, radiate, expel

(1) **emit** a gamma ray, (2) **emit** air pollution

During the unloading, the container box **emits** a clicking sound.

## widen

*v.* to become or make something broader, wider, more extensive

*synonym*: broaden, enlarge, extend

(1) **widen** in excitement, (2) **widen** a narrowed heart valve

He **widened** his investigation into a medical clinic.

## gulf

*n.* a large ocean inlet or deep bay that is partially enclosed by land

*synonym*: chasm, divide, abyss

(1) **gulf** war, (2) **gulf** stream

The **Gulf** of Mexico is a body of water in the southern United States.

## inky

*adj.* resembling, containing, or covered in ink; dark, opaque, or intense in color or appearance

*synonym*: dark, ink-stained

(1) **inky** fingerprints, (2) **inky** pen

The **inky** shadows created a spooky atmosphere in the room.

## unchanging

*adj.* not changing or subject to change; constant

*synonym*: constant, stable, static

(1) **unchanging** laws, (2) rigidly **unchanging**

The **unchanging** nature of the mountain range was a source

of constant wonder for the hikers.

## **inhabit**

*v.* to live in a specific location; to reside

*synonym*: settle, occupy, populate

(1) **inhabit** a cave, (2) **inhabit** the stomach

I have no idea what sort of folks **inhabit** the neighborhood.

## **attest**

*v.* to provide evidence or proof of something; to confirm or certify the authenticity of something; to bear witness to the truth of something

*synonym*: verify, confirm, certify

(1) **attest** to the truth, (2) **attest** to the facts

I can **attest** to his honesty and integrity, as I have known him for many years.

## **teem**

*v.* to be abuzz; to move in large numbers; to fall heavily

*synonym*: brim, swarm, overflow

(1) **teem** with activity, (2) **teem** down

The city **teems** with traffic on holiday.

## **stark**

*adj.* empty, simple, or apparent; devoid of any qualifications

*synonym*: crude, blunt, desolate

(1) **stark** landscape, (2) **stark** truth

The scenery of the battlefield was **stark** and grey.

## **telegram**

*n.* a message sent by telegraph (= a method of long-distance transmission of messages by electrical or radio signals), typically consisting of a few words and sent at a reduced rate for urgent or brief communications

*synonym*: wire, message, cablegram

(1) **telegram** service, (2) a congratulatory **telegram**

He sent a **telegram** to let his family know he was safe.

## **unbreakable**

*adj.* not able to be broken or damaged

*synonym*: indestructible, durable, sturdy

(1) **unbreakable** bond, (2) **unbreakable** commitment

This titanium bike frame is advertised as **unbreakable**.

## beckon

*v.* to gesture or signal someone to come nearer or follow; to encourage or entice someone to do something; to seem attractive or desirable

*synonym*: signal, summon, gesture

(1) **beckon** with a hand, (2) **beckon** a taxi

The warm sun and gentle breeze **beckoned** us to spend the day outside.

## dizzy

*adj.* having or causing a whirling sensation and not able to keep balance

*synonym*: addled, confounded, unsteady

(1) feel **dizzy**, (2) had a **dizzy** spell

Professional skaters can spin fast on the ice without getting **dizzy**.

## exhilarating

*adj.* making one feel very happy and lively; invigorating; providing a feeling of excitement or thrill

*synonym*: thrilling, exciting, stimulating

(1) an **exhilarating** drink, (2) **exhilarating** view

Bungee jumping was an **exhilarating** experience that left me shaking with adrenaline.

## Session 2: Spelling

1. te\_\_\_\_am service  
*n.* a message sent by telegraph (= a method of long-distance transmission of messages by electrical or radio signals), typically consisting of a few words and sent at a reduced rate for urgent or brief communications
2. e\_\_t a gamma ray  
*v.* to give off or send out something such as light, heat, sound, gas, etc.
3. had a di\_\_y spell  
*adj.* having or causing a whirling sensation and not able to keep balance
4. qu\_\_\_\_n heart rate  
*v.* to make or become faster or more rapid; to accelerate or speed up; to stimulate or stimulate something to happen or occur more quickly
5. re\_\_\_\_\_ve act  
*adj.* causing strong dislike or disgust; offensive, unpleasant, or grotesque; resisting or rejecting contact or influence
6. a beautiful sy\_\_\_\_ny  
*n.* a long musical composition in Western classical music for orchestra, usually with three or four main parts called movements
7. sp\_\_\_\_\_te about the reason  
*v.* to form a theory or conjecture or guess about a subject without solid evidence
8. in\_\_\_\_t a cave  
*v.* to live in a specific location; to reside
9. in\_\_\_e life with meaning  
*v.* to fill something with a particular quality, feeling, or influence; to imbue

ANSWERS: 1. telegram, 2. emit, 3. dizzy, 4. quicken, 5. repulsive, 6. symphony, 7. speculate, 8. inhabit, 9. infuse

10. qu\_\_k physics *n.* a type of elementary particle and a fundamental constituent of matter that make up the heavier elementary particles, such as protons, neutrons, etc.; fresh unripened cheese of a smooth texture made from pasteurized milk, a starter, and rennet
11. pi\_\_\_\_\_nt signs of manipulation *v.* to locate or identify the exact position in space or time of something
12. a pai\_\_\_\_\_ng student *adj.* cautious and correct, and requiring a significant amount of effort
13. co\_\_\_\_\_e head-on *v.* to hit something violently when moving
14. the mul\_\_\_\_\_se hypothesis *n.* a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
15. the ou\_\_\_t of the crisis *n.* the beginning of something
16. be\_\_\_n a taxi *v.* to gesture or signal someone to come nearer or follow; to encourage or entice someone to do something; to seem attractive or desirable
17. r\_v up the crowd *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
18. in\_\_\_e with spirit *v.* to fill something with a particular quality, feeling, or influence; to imbue
19. st\_\_k landscape *adj.* empty, simple, or apparent; devoid of any qualifications

ANSWERS: 10. quark, 11. pinpoint, 12. painstaking, 13. collide, 14. multiverse, 15. outset, 16. beckon, 17. rev, 18. infuse, 19. stark

20. uns\_\_\_\_\_ing labor *adj.* not fulfilling someone's desires, expectations, or needs; incomplete or inadequate.
21. t\_\_m down *v.* to be abuzz; to move in large numbers; to fall heavily
22. amateur ast\_\_\_\_\_er *n.* a physicist who studies astronomy
23. re\_\_\_\_\_ve smell *adj.* causing strong dislike or disgust; offensive, unpleasant, or grotesque; resisting or rejecting contact or influence
24. the as\_\_\_\_t of a rocket *n.* the act of climbing or moving upwards, often referring to a physical ascent of a mountain or a spiritual ascent or improvement; an upward movement; the process of moving upwards
25. carbon fi\_\_\_\_\_nt *n.* a thin wire or thread, especially one used to produce light in an electric bulb
26. romantic st\_\_\_\_\_ht *n.* the light emitted or reflected by stars, often observed in the night sky; the radiant energy emitted by stars
27. qu\_\_\_\_\_n the process *v.* to make or become faster or more rapid; to accelerate or speed up; to stimulate or stimulate something to happen or occur more quickly
28. modern co\_\_\_\_\_gy *n.* the scientific study of the nature and origin of the universe
29. solar ast\_\_\_\_\_er *n.* a physicist who studies astronomy
30. at\_\_\_\_t to the facts *v.* to provide evidence or proof of something; to confirm or certify the authenticity of something; to bear witness to the truth of something

ANSWERS: 20. unsatisfying, 21. teem, 22. astronomer, 23. repulsive, 24. ascent, 25. filament, 26. starlight, 27. quicken, 28. cosmology, 29. astronomer, 30. attest

31. ast\_\_\_\_\_cal observation      *adj.* relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude
32. the antiparticle of a qu\_\_k      *n.* a type of elementary particle and a fundamental constituent of matter that make up the heavier elementary particles, such as protons, neutrons, etc.; fresh unripened cheese of a smooth texture made from pasteurized milk, a starter, and rennet
33. e\_\_t air pollution      *v.* to give off or send out something such as light, heat, sound, gas, etc.
34. unc\_\_\_\_\_ng laws      *adj.* not changing or subject to change; constant
35. co\_\_\_\_\_in information flow      *v.* to restrict or limit someone or something's freedom or ability to do something
36. physical co\_\_\_\_\_gy      *n.* the scientific study of the nature and origin of the universe
37. fin\_\_\_\_\_nt identification      *n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
38. wi\_\_n a narrowed heart valve      *v.* to become or make something broader, wider, more extensive
39. ne\_\_\_\_\_no capture      *n.* a very small and electrically neutral particle with a very small mass that rarely reacts with other matter
40. be\_\_\_n with a hand      *v.* to gesture or signal someone to come nearer or follow; to encourage or entice someone to do something; to seem attractive or desirable

ANSWERS: 31. astronomical, 32. quark, 33. emit, 34. unchanging, 35. constrain, 36. cosmology, 37. fingerprint, 38. widen, 39. neutrino, 40. beckon

41. a sy\_\_\_\_ny orchestra *n.* a long musical composition in Western classical music for orchestra, usually with three or four main parts called movements
42. ji\_\_\_\_ry feeling *n.* a slight and rapid irregular movement or trembling; a sensation of nervousness or unease; a technical term relating to variations in the timing of signals in electronic systems
43. pai\_\_\_\_\_ng research *adj.* cautious and correct, and requiring a significant amount of effort
44. environmental det\_\_\_\_\_nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
45. g\_\_f stream *n.* a large ocean inlet or deep bay that is partially enclosed by land
46. ast\_\_\_\_\_cal numbers *adj.* relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude
47. he is ob\_\_\_\_sed with the fear *v.* to fill the mind of someone continually so that one can't think of anything else
48. at\_\_\_\_t to the truth *v.* to provide evidence or proof of something; to confirm or certify the authenticity of something; to bear witness to the truth of something
49. exploration of co\_\_\_\_s *n.* another name for the universe, mainly used when it is thought of as an ordered system

ANSWERS: 41. symphony, 42. jitter, 43. painstaking, 44. determinant, 45. gulf, 46. astronomical, 47. obsess, 48. attest, 49. cosmos



50. gain he\_\_\_\_y                    *n.* forward movement or progress made despite obstacles or resistance; clearance or space in which to move forward
51. ji\_\_\_\_r noise                    *n.* a slight and rapid irregular movement or trembling; a sensation of nervousness or unease; a technical term relating to variations in the timing of signals in electronic systems
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. feel di\_\_y                    *adj.* having or causing a whirling sensation and not able to keep balance
54. cl\_\_p of bacteria                    *n.* a small group of bushes, trees, flowers, people, etc.
55. gra\_\_\_\_\_nal energy                    *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
56. fi\_\_\_\_\_nt lamp                    *n.* a thin wire or thread, especially one used to produce light in an electric bulb
57. an exh\_\_\_\_\_ing drink                    *adj.* making one feel very happy and lively; invigorating; providing a feeling of excitement or thrill
58. ov\_\_\_\_\_ch the stream                    *v.* to be central or dominant; to form an arch over
59. h\_\_l the victorious team with cheers                    *v.* to call out to someone to get their attention, often from a distance; to greet or welcome someone, especially with enthusiasm or admiration; (noun) precipitation in the form of small balls or lumps of ice that fall from the sky

ANSWERS: 50. headway, 51. jitter, 52. determinant, 53. dizzy, 54. clump, 55. gravitational, 56. filament, 57. exhilarating, 58. overarch, 59. hail

60. rigidly unc\_\_\_\_\_ng *adj.* not changing or subject to change; constant
61. wi\_\_n in excitement *v.* to become or make something broader, wider, more extensive
62. origin of the co\_\_\_s *n.* another name for the universe, mainly used when it is thought of as an ordered system
63. a congratulatory te\_\_\_\_\_am *n.* a message sent by telegraph (= a method of long-distance transmission of messages by electrical or radio signals), typically consisting of a few words and sent at a reduced rate for urgent or brief communications
64. an\_\_\_\_\_us result *adj.* deviating from what is standard or expected; unexpected or unusual in a way that is difficult to explain
65. low-r\_v engine *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
66. ob\_\_\_s over her weight *v.* to fill the mind of someone continually so that one can't think of anything else
67. uns\_\_\_\_\_ing reality *adj.* not fulfilling someone's desires, expectations, or needs; incomplete or inadequate.
68. s\_\_r to new heights *v.* to fly or rise very high or to a great height, often with great grace or ease
69. ov\_\_\_\_\_ched the road *v.* to be central or dominant; to form an arch over

ANSWERS: 60. unchanging, 61. widen, 62. cosmos, 63. telegram, 64. anomalous, 65. rev, 66. obsess, 67. unsatisfying, 68. soar, 69. overarch

70. unb\_\_\_\_\_le commitment *adj.* not able to be broken or damaged
71. sterile ne\_\_\_\_\_nos *n.* a very small and electrically neutral particle with a very small mass that rarely reacts with other matter
72. a hos\_\_\_\_\_le welcome *adj.* friendly and generous to visitors or guests
73. un\_\_\_\_\_ed wilderness *adj.* not mapped or surveyed; unknown or unexplored; without a clear or definite course of action
74. h\_\_l forecast *v.* to call out to someone to get their attention, often from a distance; to greet or welcome someone, especially with enthusiasm or admiration; (noun) precipitation in the form of small balls or lumps of ice that fall from the sky
75. cr\_\_\_\_\_e clothes *v.* to collapse or crumple into a disordered or wrinkled mass; to fall apart or lose strength suddenly; to become emotionally distressed or overwhelmed
76. mi\_\_\_\_\_ed policies *adj.* having or showing a wrong or mistaken understanding of a situation or course of action
77. hos\_\_\_\_\_le environment *adj.* friendly and generous to visitors or guests
78. family upb\_\_\_\_\_ng *n.* the conditions and experiences in which a child is cared for and taught, especially in relation to their moral and social development
79. st\_\_\_\_\_ht sky *n.* the light emitted or reflected by stars, often observed in the night sky; the radiant energy emitted by stars

ANSWERS: 70. unbreakable, 71. neutrino, 72. hospitable, 73. uncharted, 74. hail, 75. crumple, 76. misguided, 77. hospitable, 78. upbringing, 79. starlight

80. in\_\_\_\_\_t the stomach      *v.* to live in a specific location; to reside
81. s\_\_r in popularity      *v.* to fly or rise very high or to a great height, often with great grace or ease
82. spiritual as\_\_\_\_t      *n.* the act of climbing or moving upwards, often referring to a physical ascent of a mountain or a spiritual ascent or improvement; an upward movement; the process of moving upwards
83. a cl\_\_p of trees      *n.* a small group of bushes, trees, flowers, people, etc.
84. an\_\_\_\_\_us behavior      *adj.* deviating from what is standard or expected; unexpected or unusual in a way that is difficult to explain
85. co\_\_\_\_\_in his freedom      *v.* to restrict or limit someone or something's freedom or ability to do something
86. without for\_\_\_\_\_ht and planning      *n.* the act of thinking about and planning for the future
87. cr\_\_\_\_\_e paper      *v.* to collapse or crumple into a disordered or wrinkled mass; to fall apart or lose strength suddenly; to become emotionally distressed or overwhelmed
88. fin\_\_\_\_\_nt at a crime scene      *n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
89. un\_\_\_\_\_ed waters      *adj.* not mapped or surveyed; unknown or unexplored; without a clear or definite course of action
90. t\_\_m with activity      *v.* to be abuzz; to move in large numbers; to fall heavily

ANSWERS: 80. inhabit, 81. soar, 82. ascent, 83. clump, 84. anomalous, 85. constrain, 86. forethought, 87. crumple, 88. fingerprint, 89. uncharted, 90. teem

91. sp\_\_\_\_\_te on the outcome      *v.* to form a theory or conjecture or guess about a subject without solid evidence
92. st\_\_k truth      *adj.* empty, simple, or apparent; devoid of any qualifications
93. a mi\_\_\_\_\_ed sense of duty      *adj.* having or showing a wrong or mistaken understanding of a situation or course of action
94. Catholic upb\_\_\_\_\_ng      *n.* the conditions and experiences in which a child is cared for and taught, especially in relation to their moral and social development
95. g\_\_f war      *n.* a large ocean inlet or deep bay that is partially enclosed by land
96. exh\_\_\_\_\_ing view      *adj.* making one feel very happy and lively; invigorating; providing a feeling of excitement or thrill
97. for\_\_\_\_\_ht in decision making      *n.* the act of thinking about and planning for the future
98. i\_\_y fingerprints      *adj.* resembling, containing, or covered in ink; dark, opaque, or intense in color or appearance
99. lack of he\_\_\_\_\_y      *n.* forward movement or progress made despite obstacles or resistance; clearance or space in which to move forward
100. 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
101. i\_\_y pen      *adj.* resembling, containing, or covered in ink; dark, opaque, or intense in color or appearance

ANSWERS: 91. speculate, 92. stark, 93. misguided, 94. upbringing, 95. gulf, 96. exhilarating, 97. forethought, 98. inky, 99. headway, 100. multiverse, 101. inky

102. m\_\_d business and pleasure      *v.* to combine or blend, especially in a way that produces a harmonious or unified whole; to merge or fuse
103. month's ou\_\_\_t      *n.* the beginning of something
104. unb\_\_\_\_\_le bond      *adj.* not able to be broken or damaged
105. vi\_\_\_\_\_e with anger      *v.* to move or cause anything to move fast and in small increments from side to side
106. m\_\_d physics with life science      *v.* to combine or blend, especially in a way that produces a harmonious or unified whole; to merge or fuse
107. pi\_\_\_\_\_nt the problem      *v.* to locate or identify the exact position in space or time of something
108. gra\_\_\_\_\_nal waves      *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
109. vi\_\_\_\_\_e at a regular frequency      *v.* to move or cause anything to move fast and in small increments from side to side
110. co\_\_\_\_\_e in midair      *v.* to hit something violently when moving

ANSWERS: 102. meld, 103. outset, 104. unbreakable, 105. vibrate, 106. meld, 107. pinpoint, 108. gravitational, 109. vibrate, 110. collide

## Session 3: Fill in the Blanks

1. People in the area were forced to \_\_\_\_\_ a taxi due to the lack of public transportation options.
  - v. to call out to someone to get their attention, often from a distance; to greet or welcome someone, especially with enthusiasm or admiration; (noun) precipitation in the form of small balls or lumps of ice that fall from the sky
  
2. The \_\_\_\_\_ shadows created a spooky atmosphere in the room.
  - adj. resembling, containing, or covered in ink; dark, opaque, or intense in color or appearance
  
3. 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)
  
4. He is a good-natured and \_\_\_\_\_ man.
  - adj. friendly and generous to visitors or guests
  
5. I can \_\_\_\_\_ to his honesty and integrity, as I have known him for many years.
  - v. to provide evidence or proof of something; to confirm or certify the authenticity of something; to bear witness to the truth of something
  
6. He \_\_\_\_\_ that this investment would lead to success.
  - v. to form a theory or conjecture or guess about a subject without solid evidence
  
7. The \_\_\_\_\_ of Mexico is a body of water in the southern United States.
  - n. a large ocean inlet or deep bay that is partially enclosed by land

ANSWERS: 1. hail, 2. inky, 3. gravitational, 4. hospitable, 5. attest, 6. speculated, 7. Gulf

8. He brought a map and compass with \_\_\_\_\_ in case he got lost on the hike.  
*n.* the act of thinking about and planning for the future
9. The frequent performances of the \_\_\_\_\_ prove its popularity.  
*n.* a long musical composition in Western classical music for orchestra, usually with three or four main parts called movements
10. The interests of the two countries \_\_\_\_\_.  
*v.* to hit something violently when moving
11. I have no idea what sort of folks \_\_\_\_\_ the neighborhood.  
*v.* to live in a specific location; to reside
12. 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
13. The car \_\_\_\_\_ after colliding with the tree.  
*v.* to collapse or crumple into a disordered or wrinkled mass; to fall apart or lose strength suddenly; to become emotionally distressed or overwhelmed
14. The caffeine in my coffee causes me to experience nervous \_\_\_\_\_.  
*n.* a slight and rapid irregular movement or trembling; a sensation of nervousness or unease; a technical term relating to variations in the timing of signals in electronic systems
15. The meal was \_\_\_\_\_ and left her feeling hungry an hour later.  
*adj.* not fulfilling someone's desires, expectations, or needs; incomplete or inadequate.

ANSWERS: 8. forethought, 9. symphony, 10. collide, 11. inhabit, 12. multiverse, 13. crumpled, 14. jitter, 15. unsatisfying



16. His \_\_\_\_\_ attempt to fix the problem only made it worse.

*adj.* having or showing a wrong or mistaken understanding of a situation or course of action

17. I need to \_\_\_\_\_ my pace to finish this project on time.

*v.* to make or become faster or more rapid; to accelerate or speed up; to stimulate or stimulate something to happen or occur more quickly

18. The romantic couple had a picnic under the \_\_\_\_\_.

*n.* the light emitted or reflected by stars, often observed in the night sky; the radiant energy emitted by stars

19. The cost of the new equipment was \_\_\_\_\_ and beyond the company's budget.

*adj.* relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude

20. The warm sun and gentle breeze \_\_\_\_\_ us to spend the day outside.

*v.* to gesture or signal someone to come nearer or follow; to encourage or entice someone to do something; to seem attractive or desirable

21. The bird \_\_\_\_\_ through the sky, and its wings spread wide.

*v.* to fly or rise very high or to a great height, often with great grace or ease

22. We are making \_\_\_\_\_ in our research and hope to have some significant findings soon.

*n.* forward movement or progress made despite obstacles or resistance; clearance or space in which to move forward

23. I heard the \_\_\_\_\_ of his boots in the hallway.

*n.* a small group of bushes, trees, flowers, people, etc.

ANSWERS: 16. misguided, 17. quicken, 18. starlight, 19. astronomical, 20. beckoned, 21. soared, 22. headway, 23. clump

24. This radar quickly \_\_\_\_\_ the position of the enemy.
- v.* to locate or identify the exact position in space or time of something
25. The Big Bang theory states that \_\_\_\_\_ plasma filled the entire universe before matter as we know it was created.
- n.* a type of elementary particle and a fundamental constituent of matter that make up the heavier elementary particles, such as protons, neutrons, etc.; fresh unripened cheese of a smooth texture made from pasteurized milk, a starter, and rennet
26. He sent a \_\_\_\_\_ to let his family know he was safe.
- n.* a message sent by telegraph (= a method of long-distance transmission of messages by electrical or radio signals), typically consisting of a few words and sent at a reduced rate for urgent or brief communications
27. His strict \_\_\_\_\_ instilled in him a strong sense of responsibility.
- n.* the conditions and experiences in which a child is cared for and taught, especially in relation to their moral and social development
28. The chef \_\_\_\_\_ the flavors of the spice blend to create the perfect marinade.
- v.* to combine or blend, especially in a way that produces a harmonious or unified whole; to merge or fuse
29. 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
30. The data from the study was \_\_\_\_\_ and unexpected.
- adj.* deviating from what is standard or expected; unexpected or unusual in a way that is difficult to explain

ANSWERS: 24. pinpoints, 25. quark-gluon, 26. telegram, 27. upbringing, 28. melded, 29. determinant, 30. anomalous

31. The training of a hawk was a \_\_\_\_\_ process.

*adj.* cautious and correct, and requiring a significant amount of effort

32. The hikers experienced a difficult \_\_\_\_\_ to the summit due to the steep and rocky terrain.

*n.* the act of climbing or moving upwards, often referring to a physical ascent of a mountain or a spiritual ascent or improvement; an upward movement; the process of moving upwards

33. The city \_\_\_\_\_ with traffic on holiday.

*v.* to be abuzz; to move in large numbers; to fall heavily

34. Professional skaters can spin fast on the ice without getting \_\_\_\_\_.

*adj.* having or causing a whirling sensation and not able to keep balance

35. She \_\_\_\_\_ fresh herbs into the soup for added flavor.

*v.* to fill something with a particular quality, feeling, or influence; to imbue

36. 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

37. He \_\_\_\_\_ his investigation into a medical clinic.

*v.* to become or make something broader, wider, more extensive

38. The scenery of the battlefield was \_\_\_\_\_ and grey.

*adj.* empty, simple, or apparent; devoid of any qualifications

ANSWERS: 31. painstaking, 32. ascent, 33. teems, 34. dizzy, 35. infused, 36. cosmos, 37. widened, 38. stark

39. This question has fascinated solar \_\_\_\_\_ for decades.  
*n.* a physicist who studies astronomy
40. At the \_\_\_\_\_ of the project, we encountered several obstacles.  
*n.* the beginning of something
41. The political situation \_\_\_\_\_ the country's economic growth and foreign relations.  
*v.* to restrict or limit someone or something's freedom or ability to do something
42. The \_\_\_\_\_ in the light bulb burned out, and now it's not working.  
*n.* a thin wire or thread, especially one used to produce light in an electric bulb
43. This scene \_\_\_\_\_ the entire first act.  
*v.* to be central or dominant; to form an arch over
44. \_\_\_\_\_ evolved from people's philosophical questions about the natural world.  
*n.* the scientific study of the nature and origin of the universe
45. The politician's rhetoric was so \_\_\_\_\_ that many people refused to vote for him.  
*adj.* causing strong dislike or disgust; offensive, unpleasant, or grotesque; resisting or rejecting contact or influence
46. During the flight, the wings of the plane \_\_\_\_\_.  
*v.* to move or cause anything to move fast and in small increments from side to side

ANSWERS: 39. astronomers, 40. outset, 41. constrained, 42. filament, 43. overarches, 44. Cosmology, 45. repulsive, 46. vibrate

47. The police used a \_\_\_\_\_ scanner to identify the suspect.  
*n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
48. The explorer ventured into \_\_\_\_\_ territory, not knowing what to expect.  
*adj.* not mapped or surveyed; unknown or unexplored; without a clear or definite course of action
49. During the unloading, the container box \_\_\_\_\_ a clicking sound.  
*v.* to give off or send out something such as light, heat, sound, gas, etc.
50. This laboratory has a pool consisting of thousands of \_\_\_\_\_ detectors.  
*n.* a very small and electrically neutral particle with a very small mass that rarely reacts with other matter
51. He stepped on the gas pedal, and the engine released a loud \_\_\_\_\_.  
*n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
52. This titanium bike frame is advertised as \_\_\_\_\_.  
*adj.* not able to be broken or damaged
53. He's utterly \_\_\_\_\_ with his promotion.  
*v.* to fill the mind of someone continually so that one can't think of anything else
54. The \_\_\_\_\_ nature of the mountain range was a source of constant wonder for the hikers.  
*adj.* not changing or subject to change; constant

ANSWERS: 47. fingerprint, 48. uncharted, 49. emits, 50. neutrino, 51. rev, 52. unbreakable, 53. obsessed, 54. unchanging

55. Bungee jumping was an \_\_\_\_\_ experience that left me shaking with adrenaline.

*adj.* making one feel very happy and lively; invigorating; providing a feeling of excitement or thrill

ANSWERS: 55. exhilarating