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Vocabulary Builder Reference from...

Andrew Zimmerman Jones: Does time exist? | TED Talk

https://www.ted.com/talks/andrew_zimmerman_jones_does_time_exist

All Words

IMPORTANT

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Session 1: Word List

observation

n. the act or activity of carefully examining or monitoring something or someone

synonym: watching, notice, reflection

(1) class **observation** day, (2) **observation** instrument

In the hospital, she will remain under constant **observation**.

cycle

n. an interval during which a recurring sequence of events occurs; a bicycle or motorcycle

synonym: revolution, rotation, bike

(1) the **cycle** of the seasons, (2) go to the workplace by **cycle**

The food chain causes a material **cycle**.

precise

adj. sharply exact or accurate or delimited

synonym: accurate, exact, distinct

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

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

sundial

n. a device that tells time based on the position of the sun and the shadow it casts on a marked surface

synonym: shadow clock, timepiece

(1) equatorial **sundial**, (2) antique **sundial**

The garden's **sundial** was a charming and functional

decoration.

mechanical

adj. operated by a machine, relating to or concerned with machinery or tools

synonym: machinelike, automated, automatic

(1) a **mechanical** style of writing, (2) the influence of **mechanical** action

A **mechanical** engineer is still in demand in many companies.

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.

convenient

adj. useful, helpful, or quick to do

synonym: timely, fortunate, suitable

(1) **convenient** way, (2) **convenient** location

The airport offers five **convenient** access routes.

physically

adv. in a way related to a person's body or appearance rather than their mind

(1) **physically** and mentally, (2) stay **physically** fit

Having a **physically** healthy physique is essential for a great life.

obvious

adj. easy to see, discover or understand

synonym: apparent, conspicuous, evident

(1) **obvious** reasons, (2) his conclusion was **obvious**

There are **obvious** differences between the two wine-producing regions.

constantly

adv. all the time

synonym: continuously, always, frequently

(1) a **constantly** innovative enterprise, (2) a **constantly** varying mind

The mobile application industry is **constantly** changing.

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.

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.

complicated

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

synonym: complex, convoluted, intricate

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

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

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**.

orbit

n. the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.

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**.

massive

adj. enormous amount; very heavy and solid

synonym : enormous, giant, immense

(1) **massive** amounts, (2) **massive** stars

The recent economic downturn has resulted in **massive** layoffs.

resolve

v. to find a suitable answer to the problems or difficulty

synonym : decide, determine, fix

(1) **resolve** a dispute, (2) **resolve** the computer error

This company **resolves** its battery problem completely.

combine

v. to join or merge to form a single thing or group

synonym : coalesce, cohere, blend

(1) **combine** chemically with another substance,

(2) **combine** augmented reality

Hydrogen and oxygen **combine** to form water.

define

v. to state or explain precisely the nature, scope, or meaning of something

synonym : characterize, depict, express

(1) **define** a word, (2) **define** my position

To advance this discussion, we must **define** "success" rigorously.

consistent

adj. always behaving or happening in the same way, or having the same thoughts, standards, etc.

synonym : coherent, constant, compatible

(1) do on a **consistent** basis, (2) get **consistent** results

You are not **consistent** in your behavior.

predictable

adj. capable of being known, seen or declared in advance

synonym : foreseeable, expectable, likely

(1) **predictable** pattern, (2) in a **predictable** manner

The economy becomes more volatile and less **predictable**.

confirm

v. to support or establish the truth or certainty of something previously believed or suspected to be the case

synonym : affirm, verify, assure

(1) **confirm** the diagnosis, (2) **confirm** a transaction

Please write to **confirm** your reservation.

weave

v. to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them

synonym : braid, unite, contrive

(1) **weave** on a loom, (2) **weave** a story

The girl **weaves** a garland for her friend.

fabric

n. cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.

synonym : cloth, material, goods

(1) a hand-loomed **fabric**, (2) **fabric** of creation

These synthetic **fabrics** are used in military vests because of their excellent abrasion resistance.

stubborn

adj. refusing to change one's mind or behavior despite persuasion or evidence to the contrary; unyielding; difficult to move or change

synonym : persistent, obstinate, determined

(1) **stubborn** attitude, (2) **stubborn** stains

He was so **stubborn** about his beliefs that he refused to listen to any other points of view.

arrow

n. a thin, pointed projectile designed to be shot from a bow; a symbol or pointer that is shaped like an arrow

synonym : shaft, dart, projectile

(1) **arrow** pointing, (2) **arrow** diagram

The archer aimed his **arrow** carefully at the target.

instinctively

adv. as a matter of nature or intuition rather than thought or training

synonym: inherently, intuitively, naturally

(1) **instinctively** grabbed the knife, (2) **instinctively** bad with children

Some researchers claim that even humans can **instinctively** sense earthquakes.

drift

v. to move smoothly and slowly in water or air, especially as a result of outside forces, with no control over the direction

synonym: float, wander, freewheel

(1) **drift** down the stream, (2) **drift** away on a raft

I **drifted** around for years in Europe before going to university.

opposition

n. the act of disagreeing or resisting; the state of strong disagreement

synonym: resistance, hostility, antagonism

(1) **opposition** campaign, (2) meet with **opposition**

The **opposition** party strongly disagreed with the government's proposed legislation.

recognize

v. to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered

synonym: acknowledge, identify, admit

(1) **recognize** talent, (2) **recognize** achievement

It's important to **recognize** your strengths and weaknesses.

backward

adv. at, to, or toward the direction or place that is behind or rear

synonym: back, rearward, in reverse

(1) walk **backward**, (2) **backward** angle

She falls over **backward** when she sees her mother-in-law.

physics

n. the science of matter and energy and their interactions

(1) nuclear **physics**, (2) laws of **physics**

He studied the **physics** of radiation.

thermodynamics

n. the area of physics that deals with heat, work, and temperature and their relation to energy, entropy, and the physical properties of matter and radiation

(1) applied **thermodynamics**, (2) the laws of **thermodynamics**

The second law of **thermodynamics** denies the existence of a perpetual motion engine.

disorder

n. an untidy state or a lack of organization; a physical condition or illness that causes problems with how a section of the body or brain functions

synonym: chaos, disturbance, disease

(1) the files are in complete **disorder**, (2) people with bipolar **disorder**

The doctor prescribed some medicine for the mental **disorder**.

entropy

n. a scientific concept that is most commonly associated with a state of disorder, randomness, or uncertainty

synonym: randomness

(1) **entropy** calculation, (2) **entropy** conservation

Since the second law of thermodynamics is applicable to the universe, the **entropy** of the universe continues to increase.

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**.

fundamental

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

synonym: basic, essential, entire

(1) **fundamental** education, (2) **fundamental** rights

Human behavior has **fundamental** characteristics.

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**.

govern

v. to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services

synonym: control, rule, preside

(1) a nation's right to **govern**, (2) **govern** a public enterprise

The regulations **governing** medical malpractice claims are rigorous.

quantum

n. the smallest amount or unit of something, especially (electromagnetic) energy

(1) probabilistic **quantum** theory, (2) laws of **quantum** mechanics

Big techs are now eager to develop **quantum** computers.

theoretical

adj. relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience

synonym: conceptual, conjectural, ideal

(1) **theoretical** models, (2) **theoretical** physicist

Absolute zero is the lowest **theoretical** temperature.

reconcile

v. to find a way of dealing with two or more ideas, needs, etc. that are opposed to each other to agree and coexist

synonym: harmonize, moderate, conciliate

(1) **reconcile** these differences, (2) **reconcile** a dispute

Sometimes it is challenging to **reconcile** science and religion.

attempt

n. an act or effort of trying to do something, especially something difficult

synonym: endeavor, effort, try

(1) the **attempt** to rescue the hostages, (2) a reckless **attempt**

The third **attempt** was far more successful.

oddly

adv. in a way that is unexpected, strange, or peculiar

synonym: strangely, peculiarly, weirdly

(1) behave **oddly**, (2) **oddly** familiar

He walked into the party with an **oddly** dressed companion, causing everyone to stare.

contender

n. the contestant you hope to defeat

synonym: rival, competitor, challenger

(1) championship **contender**, (2) presidential **contender**

We were looking at a severe **contender** indeed.

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.

experiment

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

synonym: experimentation, investigation

(1) **experiment** design, (2) series of **experiments**

His **experiments** showed highly positive results.

similarly

adv. in almost the same way

synonym: also, likewise, ditto

(1) **similarly** situated, (2) have **similarly** great abilities

We argue that wages for temporary workers should **similarly** rise.

starve

v. to suffer or die from lack of food; to cause someone or something to suffer or die from lack of food; to deprive

something of necessary nourishment or sustenance

synonym : famish, hunger

(1) **starve** for a victory, (2) **starve** to death

If you don't eat soon, you're going to **starve**.

illusion

n. a false idea or belief, especially about somebody or about a situation

synonym : delusion, fallacy, magic trick

(1) optical **illusion**, (2) the **illusion** of being in the forest

He could no longer tell the difference between **illusion** and reality.

perceive

v. to become aware or conscious of something through the senses

synonym : sense, discern, feel

(1) **perceive** a threat, (2) **perceive** light

Australia is widely **perceived** as having low levels of corruption.

emergent

adj. starting to exist or view, or to become known

synonym : coming, appearing, developing

(1) **emergent** repair of an aorta, (2) an **emergent** republic

Extensive areas of **emergent** plants are usually called marsh.

individual

n. a single person or thing, as distinct from a group

synonym : person, being, self

(1) a private **individual**, (2) **individual** freedom

As an **individual**, he had the right to make his own decisions and live his life as he saw fit.

molecule

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

synonym : particle, element, atom

(1) small **molecules**, (2) **molecule** behavior

The shape of the DNA **molecule** is a double helix.

- tide** *n.* the cyclical rise and fall of sea level caused by the moon's gravitational pull
synonym: ripple, surge, swell
(1) **tide** cycle, (2) ride the **tide** of change
Red **tide** is often harmful to the local ecosystem.
- fluid** *n.* a substance that can flow and is not solid
synonym: liquid, aqua, sap
(1) plenty of **fluids**, (2) **fluid** assets
She was diagnosed with a **fluid** buildup in her lungs.
- continuous** *adj.* occurring or existing without a pause or interruption
synonym: ceaseless, regular, repeated
(1) **continuous** improvement, (2) a **continuous** row of warehouses
The heavy snow has been **continuous** since last morning.
- flip** *v.* to turn over into a different position quickly; to throw or toss with a light motion
synonym: throw, jump
(1) **flip** over the pork chop, (2) **flip** a coin
He **flipped** when he heard that he had been accepted into the university.
- brain** *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
synonym: intellect, mind, encephalon
(1) basic **brain** function, (2) permanent **brain** damage
X-rays revealed a small tumor in his **brain**.
- sequence** *n.* a series of related events, actions, numbers, etc., which have a particular order
synonym: arrangement, succession, series
(1) the **sequence** of the seasons, (2) the DNA **sequence**
We do move forward with those tasks in **sequence** next week.

frame

n. a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window

synonym: body, skeleton, scaffolding

(1) a picture **frame**, (2) the **frame** of the policy

The detective looked for fingerprints on the window **frame**.

string

n. long, thin material used for tying things together, composed of several twisted threads

synonym: line, wire, rope

(1) retie the **string** and make it strong, (2) tense piano **strings**

She wore a **string** of pearls around her neck.

movement

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

synonym: motion, progression, action

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

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

physicist

n. a scientist who specializes in the field of physics

(1) talented **physicist**, (2) theoretical **physicist**

Einstein was an outstanding and famous **physicist** of the 20th century.

Session 2: Spelling

1. get con_____nt results *adj.* always behaving or happening in the same way, or having the same thoughts, standards, etc.
2. a private ind_____al *n.* a single person or thing, as distinct from a group
3. co_____e augmented reality *v.* to join or merge to form a single thing or group
4. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
5. pre_____le pattern *adj.* capable of being known, seen or declared in advance
6. sp_____te on the outcome *v.* to form a theory or conjecture or guess about a subject without solid evidence
7. optical il_____on *n.* a false idea or belief, especially about somebody or about a situation
8. st_____rn attitude *adj.* refusing to change one's mind or behavior despite persuasion or evidence to the contrary; unyielding; difficult to move or change
9. mo_____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
10. phy_____ly and mentally *adv.* in a way related to a person's body or appearance rather than their mind
11. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge

ANSWERS: 1. consistent, 2. individual, 3. combine, 4. brain, 5. predictable, 6. speculate, 7. illusion, 8. stubborn, 9. molecule, 10. physically, 11. experiment

12. equatorial su____l *n.* a device that tells time based on the position of the sun and the shadow it casts on a marked surface
13. en____y conservation *n.* a scientific concept that is most commonly associated with a state of disorder, randomness, or uncertainty
14. chemical pr____ty *n.* a thing or things that belong to someone
15. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
16. f__p over the pork chop *v.* to turn over into a different position quickly; to throw or toss with a light motion
17. mo____nt of troops *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
18. a reckless at____t *n.* an act or effort of trying to do something, especially something difficult
19. go to the workplace by cy__e *n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle
20. estimate pr____e costs *adj.* sharply exact or accurate or delimited
21. ind____al freedom *n.* a single person or thing, as distinct from a group
22. 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

ANSWERS: 12. sundial, 13. entropy, 14. property, 15. brain, 16. flip, 17. movement, 18. attempt, 19. cycle, 20. precise, 21. individual, 22. unfold

23. dr__t away on a raft *v.* to move smoothly and slowly in water or air, especially as a result of outside forces, with no control over the direction
24. the _____al models *adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
25. ob_____s reasons *adj.* easy to see, discover or understand
26. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
27. ins_____ely bad with children *adv.* as a matter of nature or intuition rather than thought or training
28. a con_____ly varying mind *adv.* all the time
29. fl__d assets *n.* a substance that can flow and is not solid
30. con_____us improvement *adj.* occurring or existing without a pause or interruption
31. 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
32. si_____ly situated *adv.* in almost the same way
33. eve_____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
34. presidential co_____er *n.* the contestant you hope to defeat
35. the influence of mec_____al action *adj.* operated by a machine, relating to or concerned with machinery or tools

ANSWERS: 23. drift, 24. theoretical, 25. obvious, 26. eventually, 27. instinctively, 28. constantly, 29. fluid, 30. continuous, 31. universe, 32. similarly, 33. eventually, 34. contender, 35. mechanical

36. a con_____ly innovative enterprise *adv.* all the time
37. re_____le a dispute *v.* to find a way of dealing with two or more ideas, needs, etc. that are opposed to each other to agree and coexist
38. behave od__y *adv.* in a way that is unexpected, strange, or peculiar
39. have si_____ly great abilities *adv.* in almost the same way
40. a picture fr__e *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
41. ins_____ely grabbed the knife *adv.* as a matter of nature or intuition rather than thought or training
42. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
43. co_____m a transaction *v.* to support or establish the truth or certainty of something previously believed or suspected to be the case
44. championship co_____er *n.* the contestant you hope to defeat
45. ma_____e stars *adj.* enormous amount; very heavy and solid
46. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
47. ar__w diagram *n.* a thin, pointed projectile designed to be shot from a bow; a symbol or pointer that is shaped like an arrow

ANSWERS: 36. constantly, 37. reconcile, 38. oddly, 39. similarly, 40. frame, 41. instinctively, 42. complicated, 43. confirm, 44. contender, 45. massive, 46. molecule, 47. arrow

48. the DNA se_____ce *n.* a series of related events, actions, numbers, etc., which have a particular order
49. 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
50. applied the_____ics *n.* the area of physics that deals with heat, work, and temperature and their relation to energy, entropy, and the physical properties of matter and radiation
51. go____n a public enterprise *v.* to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services
52. ba_____rd angle *adv.* at, to, or toward the direction or place that is behind or rear
53. do on a con_____nt basis *adj.* always behaving or happening in the same way, or having the same thoughts, standards, etc.
54. pe_____ve a threat *v.* to become aware or conscious of something through the senses
55. stay phy_____ly fit *adv.* in a way related to a person's body or appearance rather than their mind
56. an em_____nt republic *adj.* starting to exist or view, or to become known
57. laws of ph_____s *n.* the science of matter and energy and their interactions

ANSWERS: 48. sequence, 49. universe, 50. thermodynamics, 51. govern, 52. backward, 53. consistent, 54. perceive, 55. physically, 56. emergent, 57. physics

58. re____ve factors *adj.* considered and evaluated through comparison with something else
59. people with bipolar di____er *n.* an untidy state or a lack of organization; a physical condition or illness that causes problems with how a section of the body or brain functions
60. co____m the diagnosis *v.* to support or establish the truth or certainty of something previously believed or suspected to be the case
61. we__e a story *v.* to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them
62. nuclear ph____s *n.* the science of matter and energy and their interactions
63. em____nt repair of an aorta *adj.* starting to exist or view, or to become known
64. 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
65. 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
66. a con____us row of warehouses *adj.* occurring or existing without a pause or interruption
67. fa____c of creation *n.* cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.

ANSWERS: 58. relative, 59. disorder, 60. confirm, 61. weave, 62. physics, 63. emergent, 64. unfold, 65. equation, 66. continuous, 67. fabric

68. talented ph_____st *n.* a scientist who specializes in the field of physics
69. a mec_____al style of writing *adj.* operated by a machine, relating to or concerned with machinery or tools
70. ar__w pointing *n.* a thin, pointed projectile designed to be shot from a bow; a symbol or pointer that is shaped like an arrow
71. re_____le these differences *v.* to find a way of dealing with two or more ideas, needs, etc. that are opposed to each other to agree and coexist
72. re_____e a dispute *v.* to find a suitable answer to the problems or difficulty
73. con_____nt way *adj.* useful, helpful, or quick to do
74. re_____ze talent *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
75. fun_____al education *adj.* forming an essential base or core from which everything else develops or is affected
76. a nation's right to go____n *v.* to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services
77. st_____rn stains *adj.* refusing to change one's mind or behavior despite persuasion or evidence to the contrary; unyielding; difficult to move or change

ANSWERS: 68. physicist, 69. mechanical, 70. arrow, 71. reconcile, 72. resolve, 73. convenient, 74. recognize, 75. fundamental, 76. govern, 77. stubborn

78. the_____al physicist *adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
79. en_____y calculation *n.* a scientific concept that is most commonly associated with a state of disorder, randomness, or uncertainty
80. tense piano st____gs *n.* long, thin material used for tying things together, composed of several twisted threads
81. pr_____e analyses *adj.* sharply exact or accurate or delimited
82. a hand-loomed fa____c *n.* cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.
83. pe_____ve light *v.* to become aware or conscious of something through the senses
84. plenty of fl__ds *n.* a substance that can flow and is not solid
85. his conclusion was ob____s *adj.* easy to see, discover or understand
86. re_____e the computer error *v.* to find a suitable answer to the problems or difficulty
87. a circular mo____nt *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
88. obs_____on instrument *n.* the act or activity of carefully examining or monitoring something or someone

ANSWERS: 78. theoretical, 79. entropy, 80. string, 81. precise, 82. fabric, 83. perceive, 84. fluid, 85. obvious, 86. resolve, 87. movement, 88. observation

89. ma_____e amounts *adj.* enormous amount; very heavy and solid
90. a man of pr_____ty *n.* a thing or things that belong to someone
91. f__p a coin *v.* to turn over into a different position quickly; to throw or toss with a light motion
92. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
93. the il_____on of being in the forest *n.* a false idea or belief, especially about somebody or about a situation
94. class obs_____on day *n.* the act or activity of carefully examining or monitoring something or someone
95. theoretical ph_____st *n.* a scientist who specializes in the field of physics
96. opp_____on campaign *n.* the act of disagreeing or resisting; the state of strong disagreement
97. con_____nt location *adj.* useful, helpful, or quick to do
98. st___e for a victory *v.* to suffer or die from lack of food; to cause someone or something to suffer or die from lack of food; to deprive something of necessary nourishment or sustenance
99. de___e a word *v.* to state or explain precisely the nature, scope, or meaning of something
100. ride the t___e of change *n.* the cyclical rise and fall of sea level caused by the moon's gravitational pull
101. the cy___e of the seasons *n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle

ANSWERS: 89. massive, 90. property, 91. flip, 92. experiment, 93. illusion, 94. observation, 95. physicist, 96. opposition, 97. convenient, 98. starve, 99. define, 100. tide, 101. cycle

102. a remote re____ve *adj.* considered and evaluated through comparison with something else
103. fun_____al rights *adj.* forming an essential base or core from which everything else develops or is affected
104. antique su_____l *n.* a device that tells time based on the position of the sun and the shadow it casts on a marked surface
105. meet with opp_____on *n.* the act of disagreeing or resisting; the state of strong disagreement
106. dr__t down the stream *v.* to move smoothly and slowly in water or air, especially as a result of outside forces, with no control over the direction
107. 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
108. retie the st____g and make it strong *n.* long, thin material used for tying things together, composed of several twisted threads
109. in a pre_____le manner *adj.* capable of being known, seen or declared in advance
110. the files are in complete di_____er *n.* an untidy state or a lack of organization; a physical condition or illness that causes problems with how a section of the body or brain functions
111. st____e to death *v.* to suffer or die from lack of food; to cause someone or something to suffer or die from lack of food; to deprive something of necessary nourishment or sustenance

ANSWERS: 102. relative, 103. fundamental, 104. sundial, 105. opposition, 106. drift, 107. equation, 108. string, 109. predictable, 110. disorder, 111. starve

112. t__e cycle *n.* the cyclical rise and fall of sea level caused by the moon's gravitational pull
113. laws of qu____m mechanics *n.* the smallest amount or unit of something, especially (electromagnetic) energy
114. the fr__e of the policy *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
115. od__y familiar *adv.* in a way that is unexpected, strange, or peculiar
116. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
117. walk ba____rd *adv.* at, to, or toward the direction or place that is behind or rear
118. probabilistic qu____m theory *n.* the smallest amount or unit of something, especially (electromagnetic) energy
119. we__e on a loom *v.* to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them
120. re_____ze achievement *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
121. 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.

ANSWERS: 112. tide, 113. quantum, 114. frame, 115. oddly, 116. complicated, 117. backward, 118. quantum, 119. weave, 120. recognize, 121. orbit

122. de___e my position *v.* to state or explain precisely the nature, scope, or meaning of something
123. the at_____t to rescue the hostages *n.* an act or effort of trying to do something, especially something difficult
124. co_____e chemically with another substance *v.* to join or merge to form a single thing or group
125. the se_____ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
126. 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.
127. sp_____te about the reason *v.* to form a theory or conjecture or guess about a subject without solid evidence
128. the laws of the_____ics *n.* the area of physics that deals with heat, work, and temperature and their relation to energy, entropy, and the physical properties of matter and radiation

ANSWERS: 122. define, 123. attempt, 124. combine, 125. sequence, 126. orbit, 127. speculate, 128. thermodynamics

Session 3: Fill in the Blanks

1. The third _____ was far more successful.
n. an act or effort of trying to do something, especially something difficult
2. The mobile application industry is _____ changing.
adv. all the time
3. Hydrogen and oxygen _____ to form water.
v. to join or merge to form a single thing or group
4. Since the second law of thermodynamics is applicable to the universe, the _____ of the universe continues to increase.
n. a scientific concept that is most commonly associated with a state of disorder, randomness, or uncertainty
5. The content is _____ and informative for me.
adj. sharply exact or accurate or delimited
6. 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
7. The economy becomes more volatile and less _____.
adj. capable of being known, seen or declared in advance
8. He walked into the party with an _____ dressed companion, causing everyone to stare.
adv. in a way that is unexpected, strange, or peculiar

ANSWERS: 1. attempt, 2. constantly, 3. combine, 4. entropy, 5. precise, 6. unfolded, 7. predictable, 8. oddly

9. The recent economic downturn has resulted in _____ layoffs.

adj. enormous amount; very heavy and solid

10. The heavy snow has been _____ since last morning.

adj. occurring or existing without a pause or interruption

11. To advance this discussion, we must _____ "success" rigorously.

v. to state or explain precisely the nature, scope, or meaning of something

12. Human behavior has _____ characteristics.

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

13. The food chain causes a material _____.

n. an interval during which a recurring sequence of events occurs; a bicycle or motorcycle

14. These synthetic _____ are used in military vests because of their excellent abrasion resistance.

n. cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.

15. The shape of the DNA _____ is a double helix.

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

16. 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.

ANSWERS: 9. massive, 10. continuous, 11. define, 12. fundamental, 13. cycle, 14. fabrics, 15. molecule, 16. orbit

17. If you don't eat soon, you're going to _____.

- v.* to suffer or die from lack of food; to cause someone or something to suffer or die from lack of food; to deprive something of necessary nourishment or sustenance

18. She was diagnosed with a _____ buildup in her lungs.

- n.* a substance that can flow and is not solid

19. A _____ engineer is still in demand in many companies.

- adj.* operated by a machine, relating to or concerned with machinery or tools

20. We were looking at a severe _____ indeed.

- n.* the contestant you hope to defeat

21. It's important to _____ your strengths and weaknesses.

- v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered

22. We argue that wages for temporary workers should _____ rise.

- adv.* in almost the same way

23. The _____ of the dancers on stage was graceful and elegant.

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

24. Extensive areas of _____ plants are usually called marsh.

- adj.* starting to exist or view, or to become known

ANSWERS: 17. starve, 18. fluid, 19. mechanical, 20. contender, 21. recognize, 22. similarly, 23. movement, 24. emergent

25. The detective looked for fingerprints on the window _____.
- n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
26. She wore a _____ of pearls around her neck.
- n.* long, thin material used for tying things together, composed of several twisted threads
27. Einstein was an outstanding and famous _____ of the 20th century.
- n.* a scientist who specializes in the field of physics
28. Having a _____ healthy physique is essential for a great life.
- adv.* in a way related to a person's body or appearance rather than their mind
29. You are not _____ in your behavior.
- adj.* always behaving or happening in the same way, or having the same thoughts, standards, etc.
30. We do move forward with those tasks in _____ next week.
- n.* a series of related events, actions, numbers, etc., which have a particular order
31. 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
32. Australia is widely _____ as having low levels of corruption.
- v.* to become aware or conscious of something through the senses
33. As an _____ he had the right to make his own decisions and live his life as he saw fit.
- n.* a single person or thing, as distinct from a group

ANSWERS: 25. frame, 26. string, 27. physicist, 28. physically, 29. consistent, 30. sequence, 31. universe, 32. perceived, 33. individual,

34. He _____ when he heard that he had been accepted into the university.
- v. to turn over into a different position quickly; to throw or toss with a light motion
35. The archer aimed his _____ carefully at the target.
- n. a thin, pointed projectile designed to be shot from a bow; a symbol or pointer that is shaped like an arrow
36. The girl _____ a garland for her friend.
- v. to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them
37. Sometimes it is challenging to _____ science and religion.
- v. to find a way of dealing with two or more ideas, needs, etc. that are opposed to each other to agree and coexist
38. The _____ party strongly disagreed with the government's proposed legislation.
- n. the act of disagreeing or resisting; the state of strong disagreement
39. The regulations _____ medical malpractice claims are rigorous.
- v. to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services
40. The garden's _____ was a charming and functional decoration.
- n. a device that tells time based on the position of the sun and the shadow it casts on a marked surface
41. Red _____ is often harmful to the local ecosystem.
- n. the cyclical rise and fall of sea level caused by the moon's gravitational pull

ANSWERS: 34. flipped, 35. arrow, 36. weaves, 37. reconcile, 38. opposition, 39. governing, 40. sundial, 41. tide

42. She falls over _____ when she sees her mother-in-law.

adv. at, to, or toward the direction or place that is behind or rear

43. I _____ around for years in Europe before going to university.

v. to move smoothly and slowly in water or air, especially as a result of outside forces, with no control over the direction

44. The airport offers five _____ access routes.

adj. useful, helpful, or quick to do

45. He stood to inherit a million-dollar _____.

n. a thing or things that belong to someone

46. He studied the _____ of radiation.

n. the science of matter and energy and their interactions

47. Big techs are now eager to develop _____ computers.

n. the smallest amount or unit of something, especially (electromagnetic) energy

48. Absolute zero is the lowest _____ temperature.

adj. relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience

49. He did _____ pen-and-ink drawings in just a few days.

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

50. Please write to _____ your reservation.

v. to support or establish the truth or certainty of something previously believed or suspected to be the case

ANSWERS: 42. backward, 43. drifted, 44. convenient, 45. property, 46. physics, 47. quantum, 48. theoretical, 49. complicated, 50. confirm

51. This company _____ its battery problem completely.

v. to find a suitable answer to the problems or difficulty

52. Some researchers claim that even humans can _____ sense earthquakes.

adv. as a matter of nature or intuition rather than thought or training

53. The doctor prescribed some medicine for the mental _____.

n. an untidy state or a lack of organization; a physical condition or illness that causes problems with how a section of the body or brain functions

54. He was so _____ about his beliefs that he refused to listen to any other points of view.

adj. refusing to change one's mind or behavior despite persuasion or evidence to the contrary; unyielding; difficult to move or change

55. X-rays revealed a small tumor in his _____.

n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling

56. His _____ showed highly positive results.

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

57. He could no longer tell the difference between _____ and reality.

n. a false idea or belief, especially about somebody or about a situation

58. The corporation _____ dominated the entire tobacco business.

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

ANSWERS: 51. resolves, 52. instinctively, 53. disorder, 54. stubborn, 55. brain, 56. experiments, 57. illusion, 58. eventually

59. In the hospital, she will remain under constant _____.
- n.* the act or activity of carefully examining or monitoring something or someone
60. Most countries prohibit sexual activity between certain close _____.
- adj.* considered and evaluated through comparison with something else
61. There are _____ differences between the two wine-producing regions.
- adj.* easy to see, discover or understand
62. 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
63. He _____ that this investment would lead to success.
- v.* to form a theory or conjecture or guess about a subject without solid evidence
64. The second law of _____ denies the existence of a perpetual motion engine.
- n.* the area of physics that deals with heat, work, and temperature and their relation to energy, entropy, and the physical properties of matter and radiation

ANSWERS: 59. observation, 60. relatives, 61. obvious, 62. equations, 63. speculated, 64. thermodynamics