

# Englist.me



## Vocabulary Builder Reference from...

Zohreh Davoudi: Are we living in a simulation? | TED Talk

[https://www.ted.com/talks/zohreh\\_davoudi\\_are\\_we\\_living\\_in\\_a\\_simulation](https://www.ted.com/talks/zohreh_davoudi_are_we_living_in_a_simulation)

### All Words

#### IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

## Session 1: Word List

### vast

*adj.* enormous in size, number, amount, or quantity

*synonym*: expansive, extended, boundless

(1) **vast** majority, (2) **vast** desert

A **vast** audience viewed the broadcast.

### 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.

### planet

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

*synonym*: earth, world, globe

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

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

### evolve

*v.* to develop gradually, or to cause the development of something or someone gradually

*synonym*: develop, mature, grow

(1) **evolve**, (2) **evolve** over the past decade

Eyeless fish **evolved** in dark caves.

## proliferate

*v.* to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled manner

*synonym*: multiply, spread, propagate

(1) **proliferate** cells, (2) **proliferate** weeds

The number of COVID cases continued to **proliferate** in many countries worldwide.

## radiate

*v.* to spread out or emit something, such as light or heat, in all directions

*synonym*: give off, scatter, beam

(1) **radiate** an aura, (2) **radiate** in all directions

Roads **radiate** from the famous building in the center of the city.

## incredible

*adj.* unbelievable; enormous

*synonym*: unbelievable, fantastical, inconceivable

(1) **incredible** amount, (2) at **incredible** speed

Her response revealed **incredible** idiocy.

## ray

*n.* a narrow line of light, heat, or another form of energy

*synonym*: beam, light, glimmer

(1) opaque to X- **rays**, (2) effect of cosmic **rays**

Gamma **rays** penetrate body tissues and cause cell damage.

## complexity

*n.* the state or quality of being complicated or intricate and difficult to understand

*synonym*: intricacy, sophistication, elaboration

(1) cognitive **complexity**, (2) **complexity** theory

The project's **complexity** made it difficult for the team to complete it on time.

## inanimate

*adj.* not having life or spirit; not animate

*synonym*: lifeless, inert, passive

(1) **inanimate** nature, (2) **inanimate** matter

The **inanimate** object was not capable of movement or feeling.

## microscopic

*adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy

*synonym*: infinitesimal, tiny, atomic

(1) **microscopic** inquiry, (2) **microscopic** analysis

Inspectors noticed **microscopic** cracks in the submarine's hull.

## cosmic

*adj.* relating to the universe or cosmos; vast or limitless

*synonym*: astronomical, celestial, outer-space

(1) second **cosmic** velocity, (2) **cosmic** background radiation

**Cosmic** rays are high-energy particles that originate from outside the solar system.

## 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.

## mathematics

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

*synonym*: arithmetic, calculation, calculus

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

He has a flair for **mathematics**.

## apparently

*adv.* based on what you have heard or read

*synonym*: evidently, obviously, supposedly

(1) **apparently** simple, (2) **apparently** unrelated

The police **apparently** believed this explanation was

plausible.

## arbitrary

*adj.* based on chance, or individual whim rather than any reason

*synonym* : autocratic, dictatorial, whimsical

(1) **arbitrary** size and shape, (2) the **arbitrary** rule of a dictator

He collected data to avoid **arbitrary** decisions.

## constant

*adj.* happening repeatedly or all the time

*synonym* : ceaseless, stable, unchanging

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

**Constant** dropping wears away the stone.

## simulate

*v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes

*synonym* : pretend, imitate, mimic

(1) **simulate** climate change, (2) **simulate** a future scenario

He had painted the wood to **simulate** stone.

## incredibly

*adv.* in a way that is very difficult to believe; exceedingly or extremely

*synonym* : enormously, exceptionally, extraordinarily

(1) **incredibly** cheerful character, (2) get **incredibly** insecure

Several cities are experiencing **incredibly** high unemployment rates.

## advance

*v.* to go or move forward; to develop in a positive way

*synonym* : progress, boost, come along

(1) **advance** the technology, (2) **advance** a cooperative relationship

Scientific knowledge will **advance** significantly with the power of AI.

## fiction

*n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true

*synonym* : fantasy, fable, invention

(1) stuff of science **fiction**, (2) non- **fiction** bestseller

Truth is stranger than **fiction**.

## inquiry

*n.* the act or process of asking a question or asking for information; an official process of investigating a matter of public interest

*synonym* : question, research, exploration

(1) **inquiry** about the product, (2) launch an **inquiry**

Our tech support responds to the first **inquiry** exceptionally promptly.

## philosophy

*n.* the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind

*synonym* : doctrine, attitude, creed

(1) **philosophy** of education, (2) western **philosophy**

Ethics is a branch of **philosophy**.

## nick

*n.* a small cut, notch, or indentation in a surface or an edge

*synonym* : incision, dent, indentation

(1) a **nick** on the fender of a car, (2) **nick** on my hand

The interviewer arrived in a **nick** of time.

## compelling

*adj.* arousing strong and irresistible interest, attention, or admiration

*synonym* : tempting, captivating, influential

(1) tell a **compelling** story, (2) new and **compelling** evidence

His **compelling** presentation deeply moved everyone.

## argument

*n.* a set of statements or reasons used to support or refute a proposition or theory; a verbal or physical fight or dispute

*synonym* : debate, discourse, discussion

(1) a blazing **argument**, (2) the **argument** against capital punishment

The **argument** between the two sides over the proposed policy was heated.

## possibility

*n.* a chance that something may happen or be true  
*synonym*: chance, prospect, likelihood

(1) **possibility** for growth, (2) **possibility** of a major earthquake

The **possibility** of getting the disease will drastically increase.

## experimental

*adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have

*synonym*: empirical, exploratory, observed

(1) **experimental** data, (2) **experimental** design

The product is still in the **experimental** stage.

## hypothesize

*v.* to form or present a theory or explanation without sufficient evidence; to speculate

*synonym*: speculate, theorize, conjecture

(1) **hypothesize** as to outcomes, (2) **hypothesize** what could have happened

Scientists **hypothesize** that the new fish species evolved to survive in deep-sea environments.

## constraint

*n.* a limit or restriction on something, such as an action, behavior, or thought

*synonym*: limitation, restriction, bound

(1) **constraint** on business activity, (2) strict time **constraints**

The budget **constraint** forced them to make difficult decisions.

## detectable

*adj.* capable of being discovered or identified

*synonym* : perceptible, noticeable, observable

(1) a barely **detectable** change, (2) **detectable** by the human ear

The object is **detectable** at ultraviolet wavelengths.

## glitch

*n.* a minor problem or malfunction, especially in a computer program, system, or machine

*synonym* : malfunction, bug, fault

(1) computer **glitch**, (2) unanticipated **glitch**

The computer system had a minor **glitch** that caused a delay.

## accumulate

*v.* to collect or acquire a large number of things over a long period of time

*synonym* : amass, stash, earn

(1) **accumulate** cash value, (2) **accumulate** evidence

He has **accumulated** his wealth through real estate investments.

## adjust

*v.* to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.

*synonym* : adapt, alter, acclimate

(1) **adjust** a schedule, (2) **adjust** the rearview mirror

You have to **adjust** your content to the age of the audience.

## shift

*n.* a slight transition in position, direction, or trend

*synonym* : transition, change, modification

(1) Doppler **shift**, (2) major paradigm **shift**

Could you help me **shift** some furniture?

## instance

*n.* a particular example or single occurrence of something

*synonym* : example, sample, illustration

(1) for **instance**, (2) notable **instance**

These articles cite five **instances** of climate change.

## accuracy

*n.* the state or degree of being exact or correct; the ability to perform something with proficiency and without mistake

*synonym* : precision, exactness, truthfulness

(1) degree of **accuracy**, (2) the **accuracy** of his compass  
To assure **accuracy**, I recommend investing in high-quality test kits.

## steady

*adj.* firmly fixed, supported, or balanced; not shaking or moving

*synonym* : stable, solid, secure

(1) **steady** increase, (2) take a **steady** job

The patient's vital signs are **steady**, indicating a stable condition.

## 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.

## precision

*n.* the quality or condition of being exact and accurate

*synonym* : accuracy, exactness, rigor

(1) a **precision** instrument, (2) speak with **precision**

This operation requires both patience and **precision**.

## detect

*v.* to find or recognize something, especially something difficult to see, hear, etc.

*synonym* : catch, observe, notice

(1) **detect** a bad event, (2) **detect** smuggling across borders

The security camera has **detected** four intruders.

## slight

*adj.* very small in degree or amount

*synonym* : feeble, nuanced, subtle

(1) feel a **slight** concern, (2) **slight** increase



We made **slight** modifications to reflect the views of both sides.

## concept

*n.* an idea or principle associated with something abstract

*synonym*: idea, notion, vision

(1) learn new **concepts**, (2) **concept** car

One such rapidly growing **concept** is quantum cryptography.

## finite

*adj.* having a limit or restriction of size, time, etc.

*synonym*: delimited, defined, limited

(1) **finite** resources, (2) **finite** decimal

Human beings have a **finite** lifespan, so we yearn for the idea of immortality.

## compute

*v.* to make a mathematical calculation

*synonym*: calculate

(1) **compute** an average score, (2) **compute** the value

I tried to **compute** the efficiency of the investment.

## infinity

*n.* the state or quality of having no end or limit;  
(mathematics) a number greater than any natural number

*synonym*: endlessness, boundlessness, continuity

(1) the **infinity** of the universe, (2) negative **infinity**

That investor saw an **infinity** of possibilities in this company.

## 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.

## infinite

*adj.* unlimited or very great; impossible to measure

*synonym*: boundless, countless, limitless

(1) **infinite** appetite, (2) **infinite** in supply

The battle had an **infinite** impact on the nation.

## represent

*v.* to speak, act, or be present on behalf of another person or group; to form or constitute

*synonym*: depict, express, describe

(1) **represent** by a diagram, (2) the characters that **represent** numbers

We elected him to **represent** us at the international conference.

## incomprehensible

*adj.* impossible to understand or explain; not able to be grasped or comprehended

*synonym*: unintelligible, unfathomable, inexplicable

(1) **incomprehensible** jargon, (2) **incomprehensible** math problem

The mathematical formula was **incomprehensible** to most of the students.

## atomic

*adj.* of or relating to atom (= the smallest component of an element)

*synonym*: tiny, microscopic, nuclear

(1) **atomic** nucleus, (2) **atomic** bomb

Carbon has an **atomic** mass of 12.

## particle

*n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance

*synonym*: atom, grain, bit

(1) charged **particle**, (2) **particle** energy

We can calculate the position of the **particles** statistically.

## probe

*n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something

*synonym*: investigation, inquiry, examination

(1) a lunar **probe**, (2) **probe** for inside information

NASA sent a **probe** to study the atmosphere of Jupiter.

## principle

*n.* a fundamental law or truth that explains or controls how something happens or works

*synonym* : rule, creed, code

(1) **principle** of treatment, (2) **principle** in business

Efficiency isn't an essential **principle** here; fairness is.

## sensitive

*adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do

*synonym* : exposed, susceptible, keen

(1) **sensitive** documents, (2) baby with **sensitive** skin

The teacher is very **sensitive** to children's feelings.

## disrupt

*v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance

*synonym* : interrupt, disturb, break into

(1) **disrupt** a well-ordered condition, (2) **disrupt** sleep

I'm so sorry to **disrupt** you when you're pretty busy.

## pothole

*n.* a hole or depression in a road surface, usually caused by wear, weathering, or erosion; can be dangerous to drivers and cause damage to vehicles

*synonym* : chuckhole, pit, depression

(1) deep **pothole**, (2) **pothole** repair

The car hit a **pothole** and caused a flat tire.

## skate

*n.* a type of footwear that has a blade attached to its sole for skating on ice or other hard surfaces; an activity or sport that involves gliding on skates on ice or other hard surfaces

*synonym* : blade, runner, sled

(1) **skate** park, (2) roller **skate**

She has been practicing an ice **skate** routine for months

## visible

*adj.* capable of being seen; or open to easy view

*synonym* : clear, observable, seeable

(1) **visible** stars, (2) **visible** by X-ray  
My home is easily **visible** from the shore.

## 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.

## atom

*n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

*synonym*: particle, element, fraction

(1) oxygen **atom**, (2) neutral hydrogen **atoms**

The outermost electron shell of an **atom** determines its chemical characteristics.

## electron

*n.* a tiny particle with the negative electrical charge

*synonym*: negatron

(1) flow of **electrons**, (2) beam of **electrons**

The outermost **electron** shell determines the chemical properties of an atom.

## discovery

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

*synonym*: finding, uncovering, detection

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

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

## shifting

*adj.* constantly changing or moving

*synonym*: unfirm, shifty, fluctuating

(1) **shifting** balance, (2) continuously **shifting** landscape

Trends in the fashion industry are so **shifting** that it is challenging to keep up with them.

## explanation

*n.* the information or arguments that someone provides to make something understandable or clear

*synonym*: description, elucidation, account

(1) the **explanation** for the failure, (2) detailed **explanation**

The following **explanation** is currently being used to explain the phenomenon in question.

## hypothesis

*n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate

*synonym*: assumption, conjecture, theory

(1) test my **hypothesis**, (2) a bold **hypothesis**

This evidence supports the big-bang **hypothesis**.

## assume

*v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance

*synonym*: guess, presume, suppose

(1) **assume** a lousy attitude to his boss, (2) **assume** an important role

The following example **assumes** that the capacity of each battery is the same.

## 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.

## Planck

*n.* a unit of measurement used in physics to quantify the smallest possible amounts of energy, typically associated with subatomic particles and other quantum phenomena

(1) **Planck** mass, (2) **Planck** length

**Planck's** constant is a fundamental constant of nature used in quantum mechanics.

## 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.

## investigate

*v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth

*synonym*: examine, analyze, look into

(1) **investigate** the matter, (2) **investigate** a data leak

The committee **investigated** several apparent inconsistencies.

## 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.

## lifetime

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

*synonym*: lifespan, duration

(1) **lifetime** benefits, (2) **lifetime** ban from the sport

She had lived through two world wars in her **lifetime**.

## millennium

*n.* a span of 1000 years, or the 1000th anniversary (plural: millennia)

(1) past **millennium**, (2) **millennium** bottle of wine

Our world is in the third **millennium**.

## bias

*n.* a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment

*synonym*: inclination, partiality, predilection

(1) **bias** against a big company, (2) have a **bias** toward socialism

She researched gender **bias** in politics.

## calculation

*n.* the act or process of using numbers to judge an amount of something

*synonym*: analysis, computation, estimate

(1) make a **calculation**, (2) **calculation** of loss and gain

The error in the **calculation** was attributable to rounding.

## computation

*n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator

*synonym*: calculation, estimation, arithmetic

(1) parallel **computation**, (2) theory of **computation**

The researcher demonstrated the superiority of quantum **computation** in several mathematical tasks.

## alien

*n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere

*synonym*: foreigner, unfamiliar, unknown

(1) **alien** fungi, (2) resident **aliens**

**Alien** species have drastically altered the ecosystem in this area.

## conclusive

*adj.* serving to settle an issue or put an end to doubt or uncertainty; irrefutable and leaves no room for doubt

*synonym*: decisive, definitive, convincing

(1) **conclusive** information, (2) **conclusive** statement

The research provided **conclusive** evidence that the new treatment was effective.

## pursue

*v.* to do something or attempt to attain something over time; to follow or seek someone or something, especially in trying to catch them

*synonym*: seek, hunt, chase

(1) **pursue** a goal, (2) **pursue** freedoms

She intends to **pursue** a political career.

## Session 2: Spelling

- |                                     |  |
|-------------------------------------|--|
| 1. have a b__s toward socialism     | <i>n.</i> a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment   |
| 2. learn new co____ts               | <i>n.</i> an idea or principle associated with something abstract  |
| 3. con____ve information            | <i>adj.</i> serving to settle an issue or put an end to doubt or uncertainty; irrefutable and leaves no room for doubt   |
| 4. di____t a well-ordered condition | <i>v.</i> to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance  |
| 5. beam of el____ons                | <i>n.</i> a tiny particle with the negative electrical charge  |
| 6. phi____hy of education           | <i>n.</i> the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind   |
| 7. fi___e resources                 | <i>adj.</i> having a limit or restriction of size, time, etc.  |
| 8. a scientific di____ry            | <i>n.</i> the act or process of finding information, a place, or an object, or learning about something that was previously not known  |
| 9. pr__e for inside information     | <i>n.</i> a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something |

ANSWERS: 1. bias, 2. concept, 3. conclusive, 4. disrupt, 5. electron, 6. philosophy, 7. finite, 8. discovery, 9. probe



10. si\_\_\_\_\_te a future scenario  
*v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
11. feel a sl\_\_\_\_t concern  
*adj.* very small in degree or amount
12. pa\_\_\_\_\_le energy  
*n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
13. di\_\_\_\_\_t sleep  
*v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
14. in\_\_\_\_\_te matter  
*adj.* not having life or spirit; not animate
15. inv\_\_\_\_\_te a data leak  
*v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth
16. inc\_\_\_\_\_le amount  
*adj.* unbelievable; enormous
17. pl\_\_\_\_t like the Earth  
*n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
18. hyp\_\_\_\_\_ze what could have happened  
*v.* to form or present a theory or explanation without sufficient evidence; to speculate
19. mat\_\_\_\_\_cs competition  
*n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement

ANSWERS: 10. simulate, 11. slight, 12. particle, 13. disrupt, 14. inanimate, 15. investigate, 16. incredible, 17. planet, 18. hypothesize, 19. mathematics

20. 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
21. pro\_\_\_\_\_te weeds *v.* to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled manner
22. inc\_\_\_\_\_ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
23. negative in\_\_\_\_\_ty *n.* the state or quality of having no end or limit; (mathematics) a number greater than any natural number
24. get inc\_\_\_\_\_ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
25. roller sk\_\_e *n.* a type of footwear that has a blade attached to its sole for skating on ice or other hard surfaces; an activity or sport that involves gliding on skates on ice or other hard surfaces
26. st\_\_\_y increase *adj.* firmly fixed, supported, or balanced; not shaking or moving
27. the ar\_\_\_\_\_ry rule of a dictator *adj.* based on chance, or individual whim rather than any reason
28. mic\_\_\_\_\_ic inquiry *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
29. pro\_\_\_\_\_te cells *v.* to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled manner
30. in\_\_\_\_\_te appetite *adj.* unlimited or very great; impossible to measure

ANSWERS: 20. drift, 21. proliferate, 22. incredibly, 23. infinity, 24. incredibly, 25. skate, 26. steady, 27. arbitrary, 28. microscopic, 29. proliferate, 30. infinite

31. exp\_\_\_\_\_tal data *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
32. si\_\_\_\_\_ly situated *adv.* in almost the same way
33. ra\_\_\_\_\_e an aura *v.* to spread out or emit something, such as light or heat, in all directions
34. launch an in\_\_\_\_\_y *n.* the act or process of asking a question or asking for information; an official process of investigating a matter of public interest
35. cognitive com\_\_\_\_\_ty *n.* the state or quality of being complicated or intricate and difficult to understand
36. continuously sh\_\_\_\_\_ng landscape *adj.* constantly changing or moving
37. con\_\_\_\_\_us improvement *adj.* occurring or existing without a pause or interruption
38. ad\_\_\_\_\_e a cooperative relationship *v.* to go or move forward; to develop in a positive way
39. as\_\_\_\_\_e a lousy attitude to his boss *v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance
40. pr\_\_\_\_\_le of treatment *n.* a fundamental law or truth that explains or controls how something happens or works
41. baby with se\_\_\_\_\_ve skin *adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do

ANSWERS: 31. experimental, 32. similarly, 33. radiate, 34. inquiry, 35. complexity, 36. shifting, 37. continuous, 38. advance, 39. assume, 40. principle, 41. sensitive

42. neutral hydrogen a\_\_ms *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
43. non-fi\_\_\_\_\_n bestseller *n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
44. in\_\_\_\_\_te in supply *adj.* unlimited or very great; impossible to measure
45. po\_\_\_\_\_e repair *n.* a hole or depression in a road surface, usually caused by wear, weathering, or erosion; can be dangerous to drivers and cause damage to vehicles
46. in\_\_\_\_\_y about the product *n.* the act or process of asking a question or asking for information; an official process of investigating a matter of public interest
47. at inc\_\_\_\_\_le speed *adj.* unbelievable; enormous
48. con\_\_\_\_\_ve statement *adj.* serving to settle an issue or put an end to doubt or uncertainty; irrefutable and leaves no room for doubt
49. major paradigm sh\_\_t *n.* a slight transition in position, direction, or trend
50. acc\_\_\_\_\_te evidence *v.* to collect or acquire a large number of things over a long period of time
51. ar\_\_\_\_\_ry size and shape *adj.* based on chance, or individual whim rather than any reason
52. unanticipated gl\_\_\_h *n.* a minor problem or malfunction, especially in a computer program, system, or machine

ANSWERS: 42. atom, 43. fiction, 44. infinite, 45. pothole, 46. inquiry, 47. incredible, 48. conclusive, 49. shift, 50. accumulate, 51. arbitrary, 52. glitch

53. effect of cosmic r\_ys                      *n.* a narrow line of light, heat, or another form of energy
54. stuff of science fi\_\_\_\_\_n                *n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
55. experimentally obs\_\_\_\_\_le              *adj.* that can be noticed or seen
56. in\_\_\_\_\_te nature                        *adj.* not having life or spirit; not animate
57. inv\_\_\_\_\_te the matter                   *v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth
58. 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
59. second co\_\_\_c velocity                   *adj.* relating to the universe or cosmos; vast or limitless
60. ev\_\_\_e                                         *v.* to develop gradually, or to cause the development of something or someone gradually
61. pos\_\_\_\_\_ty for growth                   *n.* a chance that something may happen or be true
62. app\_\_\_\_\_ly unrelated                   *adv.* based on what you have heard or read
63. as\_\_\_e an important role                 *v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance

ANSWERS: 53. ray, 54. fiction, 55. observable, 56. inanimate, 57. investigate, 58. universe, 59. cosmic, 60. evolve, 61. possibility, 62. apparently, 63. assume

64. strict time con\_\_\_\_\_nts *n.* a limit or restriction on something, such as an action, behavior, or thought
65. speak with pr\_\_\_\_\_on *n.* the quality or condition of being exact and accurate
66. app\_\_\_\_\_ly simple *adv.* based on what you have heard or read
67. a pr\_\_\_\_\_on instrument *n.* the quality or condition of being exact and accurate
68. a n\_\_k on the fender of a car *n.* a small cut, notch, or indentation in a surface or an edge
69. opaque to X-r\_ys *n.* a narrow line of light, heat, or another form of energy
70. sl\_\_\_t increase *adj.* very small in degree or amount
71. b\_\_s against a big company *n.* a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment
72. acc\_\_\_\_\_te cash value *v.* to collect or acquire a large number of things over a long period of time
73. ev\_\_\_e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
74. ad\_\_\_t the rearview mirror *v.* to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.
75. at\_\_\_c bomb *adj.* of or relating to atom (= the smallest component of an element)
76. sh\_\_\_\_\_ng balance *adj.* constantly changing or moving

ANSWERS: 64. constraint, 65. precision, 66. apparently, 67. precision, 68. nick, 69. ray, 70. slight, 71. bias, 72. accumulate, 73. evolve, 74. adjust, 75. atomic, 76. shifting

77. hyp\_\_\_\_\_ze as to outcomes      *v.* to form or present a theory or explanation without sufficient evidence; to speculate
78. sk\_\_e park      *n.* a type of footwear that has a blade attached to its sole for skating on ice or other hard surfaces; an activity or sport that involves gliding on skates on ice or other hard surfaces
79. mo\_\_\_\_\_le behavior      *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
80. co\_\_\_\_\_e an average score      *v.* to make a mathematical calculation
81. notable in\_\_\_\_\_ce      *n.* a particular example or single occurrence of something
82. flow of el\_\_\_\_\_ons      *n.* a tiny particle with the negative electrical charge
83. vi\_\_\_\_\_e by X-ray      *adj.* capable of being seen; or open to easy view
84. n\_\_k on my hand      *n.* a small cut, notch, or indentation in a surface or an edge
85. at\_\_\_\_c nucleus      *adj.* of or relating to atom (= the smallest component of an element)
86. 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
87. det\_\_\_\_\_le by the human ear      *adj.* capable of being discovered or identified

ANSWERS: 77. hypothesize, 78. skate, 79. molecule, 80. compute, 81. instance, 82. electron, 83. visible, 84. nick, 85. atomic, 86. govern, 87. detectable

88. detailed exp\_\_\_\_\_on *n.* the information or arguments that someone provides to make something understandable or clear
89. al\_\_n fungi *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
90. fi\_\_\_e decimal *adj.* having a limit or restriction of size, time, etc.
91. ra\_\_\_\_\_e in all directions *v.* to spread out or emit something, such as light or heat, in all directions
92. resident al\_\_ns *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
93. co\_\_\_\_\_t car *n.* an idea or principle associated with something abstract
94. mil\_\_\_\_\_um bottle of wine *n.* a span of 1000 years, or the 1000th anniversary (plural: millennia)
95. the great di\_\_\_\_\_ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
96. probabilistic qu\_\_\_\_\_m theory *n.* the smallest amount or unit of something, especially (electromagnetic) energy
97. computer gl\_\_\_h *n.* a minor problem or malfunction, especially in a computer program, system, or machine

ANSWERS: 88. explanation, 89. alien, 90. finite, 91. radiate, 92. alien, 93. concept, 94. millennium, 95. discovery, 96. quantum, 97. glitch



98. the exp\_\_\_\_\_on for the failure      *n.* the information or arguments that someone provides to make something understandable or clear
99. Pl\_\_\_k length      *n.* a unit of measurement used in physics to quantify the smallest possible amounts of energy, typically associated with subatomic particles and other quantum phenomena
100. pos\_\_\_\_\_ty of a major earthquake      *n.* a chance that something may happen or be true
101. com\_\_\_\_\_ty theory      *n.* the state or quality of being complicated or intricate and difficult to understand
102. the in\_\_\_\_\_ty of the universe      *n.* the state or quality of having no end or limit; (mathematics) a number greater than any natural number
103. v\_\_t majority      *adj.* enormous in size, number, amount, or quantity
104. pr\_\_\_\_\_le in business      *n.* a fundamental law or truth that explains or controls how something happens or works
105. 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
106. have si\_\_\_\_\_ly great abilities      *adv.* in almost the same way
107. test my hyp\_\_\_\_\_is      *n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
108. pu\_\_\_e freedoms      *v.* to do something or attempt to attain something over time; to follow or seek someone or something, especially in trying to catch them

ANSWERS: 98. explanation, 99. Planck, 100. possibility, 101. complexity, 102. infinity, 103. vast, 104. principle, 105. drift, 106. similarly, 107. hypothesis, 108. pursue

109. 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
110. a good grounding in mat\_\_\_\_\_cs      *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
111. degree of ac\_\_\_\_cy      *n.* the state or degree of being exact or correct; the ability to perform something with proficiency and without mistake
112. de\_\_\_t a bad event      *v.* to find or recognize something, especially something difficult to see, hear, etc.
113. ad\_\_\_\_\_e the technology      *v.* to go or move forward; to develop in a positive way
114. co\_\_\_\_\_e the value      *v.* to make a mathematical calculation
115. a lunar pr\_\_e      *n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
116. li\_\_\_\_\_me benefits      *n.* the duration of someone's life or something's existence;
117. oxygen a\_\_m      *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

ANSWERS: 109. govern, 110. mathematics, 111. accuracy, 112. detect, 113. advance, 114. compute, 115. probe, 116. lifetime, 117. atom

118. inc\_\_\_\_\_ble jargon *adj.* impossible to understand or explain; not able to be grasped or comprehended
119. li\_\_\_\_\_me ban from the sport *n.* the duration of someone's life or something's existence;
120. western phi\_\_\_\_\_hy *n.* the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind
121. new and com\_\_\_\_\_ng evidence *adj.* arousing strong and irresistible interest, attention, or admiration
122. save the pl\_\_\_\_\_t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
123. a blazing ar\_\_\_\_\_nt *n.* a set of statements or reasons used to support or refute a proposition or theory; a verbal or physical fight or dispute
124. make a cal\_\_\_\_\_on *n.* the act or process of using numbers to judge an amount of something
125. charged pa\_\_\_\_\_le *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
126. take a st\_\_\_\_\_y job *adj.* firmly fixed, supported, or balanced; not shaking or moving
127. ad\_\_\_\_\_t a schedule *v.* to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.

ANSWERS: 118. incomprehensible, 119. lifetime, 120. philosophy, 121. compelling, 122. planet, 123. argument, 124. calculation, 125. particle, 126. steady, 127. adjust

128. parallel com\_\_\_\_\_on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
129. re\_\_\_\_\_nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
130. laws of qu\_\_\_\_\_m mechanics *n.* the smallest amount or unit of something, especially (electromagnetic) energy
131. con\_\_\_\_\_nt on business activity *n.* a limit or restriction on something, such as an action, behavior, or thought
132. se\_\_\_\_\_ve documents *adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
133. vi\_\_\_\_\_e stars *adj.* capable of being seen; or open to easy view
134. Doppler sh\_\_t *n.* a slight transition in position, direction, or trend
135. a co\_\_\_\_\_nt temperature *adj.* happening repeatedly or all the time
136. co\_\_\_\_c background radiation *adj.* relating to the universe or cosmos; vast or limitless
137. a bold hyp\_\_\_\_\_is *n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
138. obs\_\_\_\_\_le change *adj.* that can be noticed or seen
139. theory of com\_\_\_\_\_on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator

ANSWERS: 128. computation, 129. represent, 130. quantum, 131. constraint, 132. sensitive, 133. visible, 134. shift, 135. constant, 136. cosmic, 137. hypothesis, 138. observable, 139. computation

140. mic\_\_\_\_\_ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
141. exp\_\_\_\_\_tal design *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
142. a co\_\_\_\_\_nt wind *adj.* happening repeatedly or all the time
143. for in\_\_\_\_\_ce *n.* a particular example or single occurrence of something
144. a barely det\_\_\_\_\_le change *adj.* capable of being discovered or identified
145. 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
146. the ac\_\_\_\_\_cy of his compass *n.* the state or degree of being exact or correct; the ability to perform something with proficiency and without mistake
147. cal\_\_\_\_\_on of loss and gain *n.* the act or process of using numbers to judge an amount of something
148. deep po\_\_\_\_\_e *n.* a hole or depression in a road surface, usually caused by wear, weathering, or erosion; can be dangerous to drivers and cause damage to vehicles
149. small mo\_\_\_\_\_les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
150. a con\_\_\_\_\_us row of warehouses *adj.* occurring or existing without a pause or interruption

ANSWERS: 140. microscopic, 141. experimental, 142. constant, 143. instance, 144. detectable, 145. universe, 146. accuracy, 147. calculation, 148. pothole, 149. molecule, 150. continuous

151. de\_\_\_t smuggling across borders      *v.* to find or recognize something, especially something difficult to see, hear, etc.
152. inc\_\_\_\_\_ble math problem      *adj.* impossible to understand or explain; not able to be grasped or comprehended
153. past mil\_\_\_\_\_um      *n.* a span of 1000 years, or the 1000th anniversary (plural: millennia)
154. the ar\_\_\_\_\_nt against capital punishment      *n.* a set of statements or reasons used to support or refute a proposition or theory; a verbal or physical fight or dispute
155. pu\_\_\_e a goal      *v.* to do something or attempt to attain something over time; to follow or seek someone or something, especially in trying to catch them
156. si\_\_\_\_\_te climate change      *v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
157. Pl\_\_\_k mass      *n.* a unit of measurement used in physics to quantify the smallest possible amounts of energy, typically associated with subatomic particles and other quantum phenomena
158. tell a com\_\_\_\_\_ng story      *adj.* arousing strong and irresistible interest, attention, or admiration
159. the characters that re\_\_\_\_\_nt numbers      *v.* to speak, act, or be present on behalf of another person or group; to form or constitute

ANSWERS: 151. detect, 152. incomprehensible, 153. millennium, 154. argument, 155. pursue, 156. simulate, 157. Planck, 158. compelling, 159. represent

160. v\_\_t desert

*adj.* enormous in size, number, amount, or quantity

ANSWERS: 160. vast

## Session 3: Fill in the Blanks

1. That investor saw an \_\_\_\_\_ of possibilities in this company.  
*n.* the state or quality of having no end or limit; (mathematics) a number greater than any natural number
  
2. Mercury is the closest \_\_\_\_\_ to the sun.  
*n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
  
3. The teacher is very \_\_\_\_\_ to children's feelings.  
*adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
  
4. He has a flair for \_\_\_\_\_.  
*n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
  
5. 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
  
6. You have to \_\_\_\_\_ your content to the age of the audience.  
*v.* to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.
  
7. Any theorem relies on both \_\_\_\_\_ fact and assumption.  
*adj.* that can be noticed or seen

ANSWERS: 1. infinity, 2. planet, 3. sensitive, 4. mathematics, 5. drifted, 6. adjust, 7. observable



8. My home is easily \_\_\_\_\_ from the shore.

*adj.* capable of being seen; or open to easy view

9. One such rapidly growing \_\_\_\_\_ is quantum cryptography.

*n.* an idea or principle associated with something abstract

10. Human beings have a \_\_\_\_\_ lifespan, so we yearn for the idea of immortality.

*adj.* having a limit or restriction of size, time, etc.

11. Efficiency isn't an essential \_\_\_\_\_ here; fairness is.

*n.* a fundamental law or truth that explains or controls how something happens or works

12. I tried to \_\_\_\_\_ the efficiency of the investment.

*v.* to make a mathematical calculation

13. The research provided \_\_\_\_\_ evidence that the new treatment was effective.

*adj.* serving to settle an issue or put an end to doubt or uncertainty; irrefutable and leaves no room for doubt

14. She had lived through two world wars in her \_\_\_\_\_.

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

15. We argue that wages for temporary workers should \_\_\_\_\_ rise.

*adv.* in almost the same way

16. The error in the \_\_\_\_\_ was attributable to rounding.

*n.* the act or process of using numbers to judge an amount of something

ANSWERS: 8. visible, 9. concept, 10. finite, 11. principle, 12. compute, 13. conclusive, 14. lifetime, 15. similarly, 16. calculation

17. The computer system had a minor \_\_\_\_\_ that caused a delay.  
*n.* a minor problem or malfunction, especially in a computer program, system, or machine
18. Inspectors noticed \_\_\_\_\_ cracks in the submarine's hull.  
*adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
19. The outermost \_\_\_\_\_ shell determines the chemical properties of an atom.  
*n.* a tiny particle with the negative electrical charge
20. The researcher demonstrated the superiority of quantum \_\_\_\_\_ in several mathematical tasks.  
*n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
21. We can calculate the position of the \_\_\_\_\_ statistically.  
*n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
22. The \_\_\_\_\_ of getting the disease will drastically increase.  
*n.* a chance that something may happen or be true
23. This operation requires both patience and \_\_\_\_\_.  
*n.* the quality or condition of being exact and accurate
24. The following example \_\_\_\_\_ that the capacity of each battery is the same.  
*v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance

ANSWERS: 17. glitch, 18. microscopic, 19. electron, 20. computation, 21. particles, 22. possibility, 23. precision, 24. assumes

25. Could you help me \_\_\_\_\_ some furniture?

*n.* a slight transition in position, direction, or trend

26. \_\_\_\_\_ species have drastically altered the ecosystem in this area.

*n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere

27. A \_\_\_\_\_ audience viewed the broadcast.

*adj.* enormous in size, number, amount, or quantity

28. Our tech support responds to the first \_\_\_\_\_ exceptionally promptly.

*n.* the act or process of asking a question or asking for information; an official process of investigating a matter of public interest

29. Eyeless fish \_\_\_\_\_ in dark caves.

*v.* to develop gradually, or to cause the development of something or someone gradually

30. Several cities are experiencing \_\_\_\_\_ high unemployment rates.

*adv.* in a way that is very difficult to believe; exceedingly or extremely

31. The budget \_\_\_\_\_ forced them to make difficult decisions.

*n.* a limit or restriction on something, such as an action, behavior, or thought

32. The interviewer arrived in a \_\_\_\_\_ of time.

*n.* a small cut, notch, or indentation in a surface or an edge

33. Ethics is a branch of \_\_\_\_\_.

*n.* the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind

ANSWERS: 25. shift, 26. Alien, 27. vast, 28. inquiry, 29. evolved, 30. incredibly, 31. constraint, 32. nick, 33. philosophy

34. The object is \_\_\_\_\_ at ultraviolet wavelengths.

*adj.* capable of being discovered or identified

35. Our world is in the third \_\_\_\_\_.

*n.* a span of 1000 years, or the 1000th anniversary (plural: millennia)

36. The \_\_\_\_\_ object was not capable of movement or feeling.

*adj.* not having life or spirit; not animate

37. The number of COVID cases continued to \_\_\_\_\_ in many countries worldwide.

*v.* to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled manner

38. Her research team made an important \_\_\_\_\_.

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

39. Big techs are now eager to develop \_\_\_\_\_ computers.

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

40. 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

41. The police \_\_\_\_\_ believed this explanation was plausible.

*adv.* based on what you have heard or read

42. We elected him to \_\_\_\_\_ us at the international conference.

*v.* to speak, act, or be present on behalf of another person or group; to form or constitute

ANSWERS: 34. detectable, 35. millennium, 36. inanimate, 37. proliferate, 38. discovery, 39. quantum, 40. universe, 41. apparently, 42. represent

43. The project's \_\_\_\_\_ made it difficult for the team to complete it on time.  
*n.* the state or quality of being complicated or intricate and difficult to understand
44. \_\_\_\_\_ dropping wears away the stone.  
*adj.* happening repeatedly or all the time
45. The car hit a \_\_\_\_\_ and caused a flat tire.  
*n.* a hole or depression in a road surface, usually caused by wear, weathering, or erosion; can be dangerous to drivers and cause damage to vehicles
46. I'm so sorry to \_\_\_\_\_ you when you're pretty busy.  
*v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
47. Her response revealed \_\_\_\_\_ idiocy.  
*adj.* unbelievable; enormous
48. His \_\_\_\_\_ presentation deeply moved everyone.  
*adj.* arousing strong and irresistible interest, attention, or admiration
49. Trends in the fashion industry are so \_\_\_\_\_ that it is challenging to keep up with them.  
*adj.* constantly changing or moving
50. 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

ANSWERS: 43. complexity, 44. Constant, 45. pothole, 46. disrupt, 47. incredible, 48. compelling, 49. shifting, 50. governing

51. The \_\_\_\_\_ between the two sides over the proposed policy was heated.
- n.* a set of statements or reasons used to support or refute a proposition or theory; a verbal or physical fight or dispute
52. Truth is stranger than \_\_\_\_\_.
- n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
53. She researched gender \_\_\_\_\_ in politics.
- n.* a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment
54. The mathematical formula was \_\_\_\_\_ to most of the students.
- adj.* impossible to understand or explain; not able to be grasped or comprehended
55. This evidence supports the big-bang \_\_\_\_\_.
- n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
56. The following \_\_\_\_\_ is currently being used to explain the phenomenon in question.
- n.* the information or arguments that someone provides to make something understandable or clear
57. These articles cite five \_\_\_\_\_ of climate change.
- n.* a particular example or single occurrence of something
58. The outermost electron shell of an \_\_\_\_\_ determines its chemical characteristics.
- n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

ANSWERS: 51. argument, 52. fiction, 53. bias, 54. incomprehensible, 55. hypothesis, 56. explanation, 57. instances, 58. atom

59. Carbon has an \_\_\_\_\_ mass of 12.

*adj.* of or relating to atom (= the smallest component of an element)

60. She intends to \_\_\_\_\_ a political career.

*v.* to do something or attempt to attain something over time; to follow or seek someone or something, especially in trying to catch them

61. NASA sent a \_\_\_\_\_ to study the atmosphere of Jupiter.

*n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something

62. The security camera has \_\_\_\_\_ four intruders.

*v.* to find or recognize something, especially something difficult to see, hear, etc.

63. The heavy snow has been \_\_\_\_\_ since last morning.

*adj.* occurring or existing without a pause or interruption

64. He had painted the wood to \_\_\_\_\_ stone.

*v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes

65. She has been practicing an ice \_\_\_\_\_ routine for months

*n.* a type of footwear that has a blade attached to its sole for skating on ice or other hard surfaces; an activity or sport that involves gliding on skates on ice or other hard surfaces

66. The patient's vital signs are \_\_\_\_\_ indicating a stable condition.

*adj.* firmly fixed, supported, or balanced; not shaking or moving

ANSWERS: 59. atomic, 60. pursue, 61. probe, 62. detected, 63. continuous, 64. simulate, 65. skate, 66. steady,

67. \_\_\_\_\_ constant is a fundamental constant of nature used in quantum mechanics.
- n.* a unit of measurement used in physics to quantify the smallest possible amounts of energy, typically associated with subatomic particles and other quantum phenomena
68. He has \_\_\_\_\_ his wealth through real estate investments.
- v.* to collect or acquire a large number of things over a long period of time
69. The committee \_\_\_\_\_ several apparent inconsistencies.
- v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth
70. Scientific knowledge will \_\_\_\_\_ significantly with the power of AI.
- v.* to go or move forward; to develop in a positive way
71. The battle had an \_\_\_\_\_ impact on the nation.
- adj.* unlimited or very great; impossible to measure
72. The product is still in the \_\_\_\_\_ stage.
- adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
73. \_\_\_\_\_ rays are high-energy particles that originate from outside the solar system.
- adj.* relating to the universe or cosmos; vast or limitless
74. 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

ANSWERS: 67. Planck's, 68. accumulated, 69. investigated, 70. advance, 71. infinite, 72. experimental, 73. Cosmic, 74. molecule



75. Gamma \_\_\_\_\_ penetrate body tissues and cause cell damage.

*n.* a narrow line of light, heat, or another form of energy

76. Scientists \_\_\_\_\_ that the new fish species evolved to survive in deep-sea environments.

*v.* to form or present a theory or explanation without sufficient evidence; to speculate

77. To assure \_\_\_\_\_ I recommend investing in high-quality test kits.

*n.* the state or degree of being exact or correct; the ability to perform something with proficiency and without mistake

78. He collected data to avoid \_\_\_\_\_ decisions.

*adj.* based on chance, or individual whim rather than any reason

79. Roads \_\_\_\_\_ from the famous building in the center of the city.

*v.* to spread out or emit something, such as light or heat, in all directions

80. We made \_\_\_\_\_ modifications to reflect the views of both sides.

*adj.* very small in degree or amount

ANSWERS: 75. rays, 76. hypothesize, 77. accuracy, 78. arbitrary, 79. radiate, 80. slight