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Vocabulary Builder Reference from...

Shohini Ghose: A beginner's guide to quantum computing | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

casino

n. a business or establishment that provides gambling services, such as slot machines, table games, or sports betting; a facility or venue that hosts events or entertainment, often featuring dining or recreational amenities

synonym: gambling house, gaming establishment, resort casino

(1) **casino** floor, (2) **casino** games

I won \$100 at the **casino** last night playing blackjack.

decide

v. to make up someone's mind about something; to come to a conclusion or judgment after considering options

synonym: choose, determine, settle

(1) **decide** a question, (2) **decide** on a course of action

She couldn't **decide** whether to order the pizza or the pasta for dinner.

solitaire

n. a single-player game or activity often played with cards or on a computer; a type of diamond or jewel that is set alone in a piece of jewelry with no accompanying stones

synonym: patience, loneliness, solo game

(1) **solitaire** game, (2) **solitaire** diamond

My grandmother loved to play **solitaire** with a deck of cards every afternoon.

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.

outcome n. the result or effect of an action, event, etc.
synonym: result, consequence, effect
(1) improved student **outcomes**, (2) a desirable **outcome**
They awaited news of the **outcome** of the election.

rev n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
synonym: revolution, RPM, speed
(1) low- **rev** engine, (2) **rev** up the crowd
He stepped on the gas pedal, and the engine released a loud **rev**.

opponent n. a person against whom you are playing or fighting in a game, competition, debate, etc.
synonym: adversary, competitor, enemy
(1) computer **opponent**, (2) death-penalty **opponent**
He was attempting to confuse his **opponent**.

fin n. a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance
synonym: flipper, appendage, stabilizer
(1) back **fin**, (2) a **fin** of a plane
The shark's powerful **fins** allowed it to swim at high speeds.

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.

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.

physics

n. the science of matter and energy and their interactions

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

He studied the **physics** of radiation.

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.

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.

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.

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.

photon

n. a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation

synonym : particle, quantum, light

(1) **photon** emission, (2) **photon** energy

Infrared cameras detect **photons** in the infrared range of the electromagnetic spectrum.

bulb

n. a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball

(1) wet- **bulb** thermometer, (2) a lily **bulb**

The light **bulb** has burned out.

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.

device

n. a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

synonym : gadget, instrument, tool

(1) electronic **device**, (2) tracking **device**

I always carry a backup **device** in case my phone runs out of battery.

transform

v. to change in outward structure or looks;

synonym : alter, convert, change

(1) **transform** an education system, (2) **transform** heat into power

My father's death **transformed** my life completely.

aspect

n. one part or feature of a situation, problem, subject, etc.
synonym: characteristic, element, factor

(1) nontechnical **aspects** of the job, (2) **aspects** of social, political, and economic life

His professional experience includes all **aspects** of media production.

excitement

n. a feeling of great enthusiasm and eagerness
synonym: thrill, exhilaration, incitement

(1) the **excitement** in the business world, (2) aesthetic **excitement**

The **excitement** of the upcoming concert was palpable among the crowd.

remotely

adv. at a distance; not directly or easily accessible
synonym: distantly, remotely, slightly

(1) **remotely** operate, (2) control **remotely**

The company can **remotely** access its employees' computers for troubleshooting purposes.

unfortunately

adv. by bad luck; unluckily
synonym: regrettably, unluckily, alas

(1) **unfortunately** caught in a shower, (2) even more **unfortunately**

The treatments were done but, **unfortunately**, were unsuccessful.

achieve

v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
synonym: accomplish, attain, reach

(1) **achieve** success, (2) **achieve** milestones

I will work hard to **achieve** my goals and realize my dreams.

amazing

adj. extremely surprising, especially in a way that you like or admire

synonym:

exceptional, extraordinary, wonderful

(1) **amazing** advances, (2) the most **amazing** feeling
The golfer recorded an **amazing** distance.

streak

n. a long, narrow mark or band, typically one of a different color or texture from the surrounding surface; a brief period or run of success, luck, or behavior; a consistent pattern of behavior or a distinguishing characteristic of an individual

synonym: strip, band, dash

(1) **streak** of luck, (2) gold **streak**

He had a **streak** of stubbornness that made him difficult to work with.

magic

n. beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers

synonym: fascination, illusion, wizardry

(1) a **magic** spell, (2) she is **magic**

He performed **magic** tricks with sophisticated moves.

cheat

v. to act dishonestly or unfairly to gain an advantage or to deceive someone; to break the rules or laws

synonym: deceive, swindle, defraud

(1) **cheat** on my taxes, (2) **cheat** in a game

Even though he knew it was wrong, he **cheated** on the exam.

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.

chip

n. a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

synonym : flake, fragment, chunk

(1) a **chip** of wood, (2) I don't care a **chip**

We can use this campaign as a bargaining **chip** in the negotiations.

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.

nonbinary

adj. someone who does not identify as a man or a woman;
not relating to, composed of, or including only two things

synonym : pluralistic, polyphyletic

(1) **nonbinary** gender, (2) **nonbinary** identities

More and more people in various countries believe that the policymaker should change the marriage rules for **nonbinary** people.

identity

n. the fact of being who or what somebody or something is;
the features, emotions, or ideas that distinguish persons
from one another

synonym : character, personality, individuality

(1) mistaken **identity**, (2) **identity** as an individual

The terrorist's **identity** remains unknown.

superposition

n. a principle in physics that describes the combination or
overlaying of two or more waves or states of matter; (of
geology) the process by which layers of rock or
sediment are deposited on top of one another over time

synonym : overlay, overlap

(1) quantum **superposition**, (2) **superposition** theorem

The **superposition** of waves can result in either constructive or destructive interference.

combination

n. a collection of things that have been combined; an
assemblage of separate parts or qualities

synonym : blend, hybrid, compounding

(1) genic **combinations**, (2) **combination** number
The **combination** to the safe was a secret.

probabilistic

adj. characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks

synonym: probable, statistical, likely

(1) **probabilistic** model, (2) **probabilistic** approach

In a **probabilistic** system, the outcome is uncertain and can vary based on chance.

spectrum

n. an ordered array of colors into which a light beam can be split

synonym: range, scale, spread

(1) a broad **spectrum** of opinion, (2) infrared **spectrum**

This device displayed the speech **spectrum** spectrographically.

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.

endless

adj. having no end or conclusion; infinitely very large in size or amount

synonym: infinite, ceaseless, boundless

(1) **endless** possibilities, (2) **endless** hours

He looked out the window at the **endless** stream of people.

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.

uncertain

adj. not being sure of something; not being able to choose
synonym : doubtful, skeptical, pending

(1) numerous **uncertain** factors, (2) take an **uncertain** attitude

She was **uncertain** about her friend's intentions.

intact

adj. undamaged and complete

synonym : flawless, unchanged, entire

(1) **intact** brain, (2) **intact** forestland

Despite the scandals, his reputation remained **intact**.

stir

v. to mix a liquid or substance by using a spoon or something similar; to cause to be agitated, excited, or roused

synonym : mix, swirl, provoke

(1) **stir** a sauce, (2) **stir** up controversy

Topics related to that war may **stir** up a political hornets' nest.

mixture

n. a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties

synonym : blend, amalgam, concoction

(1) **mixture** of emotions, (2) perfect **mixture**

The paint was a **mixture** of different pigments to achieve the desired color.

recover

v. to return to a former condition, health, mind, or strength

synonym : come back, convalesce, heal

(1) **recover** a loss, (2) **recover** approval ratings

She is still **recovering** from a shot to her shoulder.

weird

adj. extraordinary, unexpected, or difficult to explain

synonym : bizarre, creepy, peculiar

(1) a **weird** dress, (2) the state of being **weird**

My computer has been acting **weird** recently.

absolutely

adv. without restriction or limitation; completely or utterly
synonym: completely, utterly, definitely

(1) **absolutely** against, (2) **absolutely** obsessed with the girl

I am **absolutely** opposed to his idea because of morality.

confuse

v. to mistake one thing for another; to make somebody hard to understand

synonym: confound, obscure, disorient

(1) **confuse** the listener, (2) **confuse** fantasy with reality

Her remarks **confused** the debate.

harness

v. to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object

synonym: rein in, control, (noun) belt

(1) **harness** a horse to a carriage, (2) put a **harness** on my pet

People have been exploring ways to **harness** natural forces and resources since ancient times.

encrypt

v. to convert information or data into a code, thereby making it unreadable without a key or password; to conceal or obscure information in a way that makes it inaccessible to unauthorized persons

synonym: encode, cipher, scramble

(1) **encrypt** data, (2) **encrypt** message

To protect their sensitive information, many businesses **encrypt** their files.

locate

v. to specify or determine the exact position of someone or something

synonym: discover, find, place

(1) **locate** a missing pet, (2) **locate** a tumor

The robot can accurately **locate** construction material.

hack

v. to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks

synonym : cut, chop, crack

(1) **hack** through the jungle, (2) **hack** into the program

This blog offers a variety of tips for **hacking** everyday life.

unbreakable

adj. not able to be broken or damaged

synonym : indestructible, durable, sturdy

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

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

institutionalize

v. to establish or make something a part of an institution (= a place such as a university, hospital, etc.)

synonym : formalize, establish, regularize

(1) **institutionalize** a system, (2) **institutionalize** customary laws

The new policy aims to **institutionalize** the use of renewable energy sources.

secondly

adv. used to introduce the second point or item in a list or series of statements, considerations, etc.

synonym : in the second place, next, subsequently

(1) **secondly** connected, (2) **secondly**, it is important

Firstly, we will discuss the budget; **secondly**, we will go over the schedule.

medicinal

adj. of or relating to the treatment or cure of disease

synonym : curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**

The **medicinal** properties of this herb have been known to help with various ailments.

analyze

v. to think about in-depth and evaluate to discover essential features or meaning

synonym : explore, examine, investigate

(1) **analyze** a chemical compound, (2) **analyze** your real motives

The teacher attempted to **analyze** the root cause of our mistake.

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.

develop

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

synonym: evolve, progress, advance

(1) **develop** a strategy, (2) **develop** a skill

We must **develop** a new system to streamline our workflow and increase efficiency.

calculate

v. to judge or find out the amount or number of something by using mathematics

synonym: compute, figure, estimate

(1) **calculate** the distance, (2) **calculate** his credit score

He couldn't **calculate** the actual value of the artwork.

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.

supercomputer

n. a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data

processing

synonym : high-performance computer, mainframe, giant computer

(1) **supercomputer** performance, (2) **supercomputer** technology

China has developed one of the world's fastest **supercomputers** for its space program.

large-scale

adj. involving many people or things and involving a lot of change or activity

synonym : big, massive, grand

(1) **large-scale** project, (2) **large-scale** agriculture

The company is planning to make a **large-scale** expansion of its factory.

disease

n. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

synonym : illness, ailment, affliction

(1) **disease** prevention, (2) **disease** control

The doctor diagnosed him with a rare **disease** that had no known cure.

Alzheimer

n. a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults

synonym : dementia, memory loss, cognitive decline

(1) **Alzheimer's** brain, (2) **Alzheimer's** risk factors

My grandmother has **Alzheimer's** disease requires special care and attention from her caregivers.

teleport

v. to transport or transmit instantly from one location to another, typically using advanced technology or imagined supernatural powers

synonym : beam, transport, transmit

(1) **teleport** objects through space, (2) **teleport** to any location in the world

The magician seemed to **teleport** instantly from one side of the stage to the other.

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.

transmit

v. to send or forward an electronic signal; to pass something from one person or thing to another

synonym: convey, share, dispatch

(1) **transmit** the disease, (2) **transmit** information

Parents often **transmit** their characteristics to their children.

sci-fi

n. (informal for science fiction) a genre of speculative fiction typically deals with space travel, life on other planets, time travel, etc.

(1) a **sci-fi** movie, (2) avid **sci-fi** fan

He is a gadget buff and **sci-fi** enthusiast.

entangle

v. to become twisted or knotted together, especially in a way that makes it difficult to separate them; to involve in something complicated or difficult to escape

synonym: ensnare, entrap, involve

(1) **entangle** in wires, (2) emotionally **entangle**

The vines of the plant **entangled** themselves around the trellis.

demonstrate

v. to display something or give an exhibition to an interested audience

synonym: show, illustrate, display

(1) **demonstrate** a difference, (2) **demonstrate** mastery

How can you **demonstrate** that the earth is a sphere?

lab

n. a workplace for the conduct of scientific research; a laboratory

synonym: workshop, laboratory, research chamber

(1) **lab** instrument, (2) medical **lab**

The Prime Minister will pay a courtesy visit to the Nobel laureate's **lab**.

implement

v. to put a decision, plan, or system into effect

synonym: execute, enforce, put through

(1) **implement** a corporate strategy, (2) **implement** security measures

The government promised to **implement** a new system to control the financial crisis.

protocol

n. a set of rules or procedures for transmitting data or conducting a process or activity, especially in computer networks or scientific experiments; the initial or original version of an agreement

synonym: procedure, system, method

(1) draft a **protocol**, (2) **protocol** breach

The company has a strict **protocol** for handling sensitive information to ensure security.

efficient

adj. performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials

synonym: productive, effective, competent

(1) **efficient** operation, (2) energy- **efficient** appliances

The new washing machine is much more **efficient** than the old one.

transmission

n. the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television

synonym: transportation, communication, broadcast

(1) **transmission** speed, (2) the **transmission** gears of a car

Education is the **transmission** of civilization.

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.

recommend

v. to suggest that someone or something would be a suitable fit for a particular purpose or role

synonym: advise, suggest, instruct

(1) **recommend** a hospitalization, (2) **recommend** reading

We **recommend** taking media training every six months.

wonderland

n. a place or situation that is delightful or enchanting, often characterized by a dreamlike or surreal quality; a reference to the fictional world from Lewis Carroll's Alice's Adventures in Wonderland

synonym: fantasyland, dreamland, fairyland

(1) magical **wonderland**, (2) Alice's **wonderland**

The colorful garden was a **wonderland** of various plants and flowers.

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**.

tread

v. to step or walk on something

synonym: step, walk, pace

(1) **tread** water, (2) **tread** a similar path

He **treads** carefully on the slippery ice.

responsible

adj. answerable or accountable for something within one's power, control, or management

synonym: accountable, answerable, liable

(1) **responsible** action, (2) **responsible** for a customer

service

She's a **responsible** pet owner who ensures her dog gets enough exercise and a healthy diet.

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.

mystery

n. something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

synonym : enigma, puzzle, secret

(1) **mystery** novel, (2) unsolved **mystery**

The **mystery** surrounding the disappearance of the traveler has yet to be solved by authorities.

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**.

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.

horizon

n. the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be

anticipated

synonym : skyline, view, visible boundary

(1) the event **horizon** of a black hole, (2) business **horizon**

As the sun set, the colors of the sky merged with the **horizon**, creating a beautiful orange and pink hue.

imaginary

adj. existing only in someone's mind

synonym : fictional, ideal, fantastical

(1) **imaginary** number, (2) **imaginary** pregnancy

Little children tend to have **imaginary** friends.

ingenuity

n. the quality of inventing things or solving problems in clever new ways

synonym : creativity, invention, originality

(1) the infinite **ingenuity** of man, (2) abound in **ingenuity**

Creativity and **ingenuity** are often brought about by extreme concentration.

reward

n. a thing given in acknowledgment of service, hard work, achievement, etc.

synonym : compensation, gratuity, bonus

(1) the **reward** for good works, (2) shopping **rewards** cards

Night fishing has a lot of **rewards**.

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.

exciting

adj. causing a lot of interest or excitement

synonym : exhilarating, stimulating, thrilling

(1) **exciting** football player, (2) **exciting** news

The findings of the experiment were both **exciting** and

unexpected.

Session 2: Spelling

1. f__p a coin *v.* to turn over into a different position quickly; to throw or toss with a light motion
2. tr____it information *v.* to send or forward an electronic signal; to pass something from one person or thing to another
3. take an un_____in attitude *adj.* not being sure of something; not being able to choose
4. Al_____er's brain *n.* a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults
5. f__p over the pork chop *v.* to turn over into a different position quickly; to throw or toss with a light motion
6. a c__p of wood *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
7. sup_____ter technology *n.* a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing
8. a we__d dress *adj.* extraordinary, unexpected, or difficult to explain
9. ha_____s a horse to a carriage *v.* to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object

ANSWERS: 1. flip, 2. transmit, 3. uncertain, 4. Alzheimer, 5. flip, 6. chip, 7. supercomputer, 8. weird, 9. harness

10. pos_____ty of a major earthquake *n.* a chance that something may happen or be true
11. avid sc___i fan *n.* (informal for science fiction) a genre of speculative fiction typically deals with space travel, life on other planets, time travel, etc.
12. en_____t message *v.* to convert information or data into a code, thereby making it unreadable without a key or password; to conceal or obscure information in a way that makes it inaccessible to unauthorized persons
13. res_____le action *adj.* answerable or accountable for something within one's power, control, or management
14. fun_____al rights *adj.* forming an essential base or core from which everything else develops or is affected
15. so_____re diamond *n.* a single-player game or activity often played with cards or on a computer; a type of diamond or jewel that is set alone in a piece of jewelry with no accompanying stones
16. r_v up the crowd *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
17. 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

ANSWERS: 10. possibility, 11. sci-fi, 12. encrypt, 13. responsible, 14. fundamental, 15. solitaire, 16. rev, 17. simulate

18. 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
19. mi_____e of emotions *n.* a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
20. de_____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
21. ca___o games *n.* a business or establishment that provides gambling services, such as slot machines, table games, or sports betting; a facility or venue that hosts events or entertainment, often featuring dining or recreational amenities
22. si_____ly situated *adv.* in almost the same way
23. co_____m the diagnosis *v.* to support or establish the truth or certainty of something previously believed or suspected to be the case
24. ch__t in a game *v.* to act dishonestly or unfairly to gain an advantage or to deceive someone; to break the rules or laws
25. s__r a sauce *v.* to mix a liquid or substance by using a spoon or something similar; to cause to be agitated, excited, or roused

ANSWERS: 18. atom, 19. mixture, 20. develop, 21. casino, 22. similarly, 23. confirm, 24. cheat, 25. stir

26. magical won_____nd *n.* a place or situation that is delightful or enchanting, often characterized by a dreamlike or surreal quality; a reference to the fictional world from Lewis Carroll's Alice's Adventures in Wonderland
27. I don't care a c__p *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
28. 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
29. re_____nd reading *v.* to suggest that someone or something would be a suitable fit for a particular purpose or role
30. estimate pr_____e costs *adj.* sharply exact or accurate or delimited
31. tr_____rm an education system *v.* to change in outward structure or looks;
32. tr__d a similar path *v.* to step or walk on something
33. ac_____e milestones *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
34. inc_____ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
35. en_____t data *v.* to convert information or data into a code, thereby making it unreadable without a key or password; to conceal or obscure information in a way that makes it inaccessible to unauthorized persons

ANSWERS: 26. wonderland, 27. chip, 28. simulate, 29. recommend, 30. precise, 31. transform, 32. tread, 33. achieve, 34. incredibly, 35. encrypt

36. h__k through the jungle *v.* to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks
37. se____ly connected *adv.* used to introduce the second point or item in a list or series of statements, considerations, etc.
38. dem_____te a difference *v.* to display something or give an exhibition to an interested audience
39. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
40. death-penalty op_____nt *n.* a person against whom you are playing or fighting in a game, competition, debate, etc.
41. lo___e a tumor *v.* to specify or determine the exact position of someone or something
42. traditional me_____al *adj.* of or relating to the treatment or cure of disease
43. en_____s possibilities *adj.* having no end or conclusion; infinitely very large in size or amount
44. dem_____te mastery *v.* to display something or give an exhibition to an interested audience
45. wet-b__b thermometer *n.* a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball
46. am_____g advances *adj.* extremely surprising, especially in a way that you like or admire

ANSWERS: 36. hack, 37. secondly, 38. demonstrate, 39. lab, 40. opponent, 41. locate, 42. medicinal, 43. endless, 44. demonstrate, 45. bulb, 46. amazing

47. co_____m a transaction *v.* to support or establish the truth or certainty of something previously believed or suspected to be the case
48. she is ma__c *n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers
49. mo_____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
50. co_____e fantasy with reality *v.* to mistake one thing for another; to make somebody hard to understand
51. beam of el_____ons *n.* a tiny particle with the negative electrical charge
52. 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
53. 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
54. tra_____ion speed *n.* the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television
55. the event ho_____n of a black hole *n.* the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated

ANSWERS: 47. confirm, 48. magic, 49. molecule, 50. confuse, 51. electron, 52. universe, 53. probe, 54. transmission, 55. horizon

56. re_____nd a hospitalization *v.* to suggest that someone or something would be a suitable fit for a particular purpose or role
57. te_____rt to any location in the world *v.* to transport or transmit instantly from one location to another, typically using advanced technology or imagined supernatural powers
58. tr_____it the disease *v.* to send or forward an electronic signal; to pass something from one person or thing to another
59. shopping re____ds cards *n.* a thing given in acknowledgment of service, hard work, achievement, etc.
60. com_____on number *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
61. re_____r a loss *v.* to return to a former condition, health, mind, or strength
62. se_____ly, it is important *adv.* used to introduce the second point or item in a list or series of statements, considerations, etc.
63. theoretical ph_____st *n.* a scientist who specializes in the field of physics
64. st___k of luck *n.* a long, narrow mark or band, typically one of a different color or texture from the surrounding surface; a brief period or run of success, luck, or behavior; a consistent pattern of behavior or a distinguishing characteristic of an individual

ANSWERS: 56. recommend, 57. teleport, 58. transmit, 59. reward, 60. combination, 61. recover, 62. secondly, 63. physicist, 64. streak

65. tr_____rm heat into power *v.* to change in outward structure or looks;
66. ex_____ng news *adj.* causing a lot of interest or excitement
67. ca_____te his credit score *v.* to judge or find out the amount or number of something by using mathematics
68. in____t forestland *adj.* undamaged and complete
69. no_____ry gender *adj.* someone who does not identify as a man or a woman; not relating to, composed of, or including only two things
70. unb_____le commitment *adj.* not able to be broken or damaged
71. re_____r approval ratings *v.* to return to a former condition, health, mind, or strength
72. im_____nt a corporate strategy *v.* to put a decision, plan, or system into effect
73. nontechnical as____ts of the job *n.* one part or feature of a situation, problem, subject, etc.
74. put a ha_____s on my pet *v.* to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object
75. im_____ry pregnancy *adj.* existing only in someone's mind
76. unf_____ely caught in a shower *adv.* by bad luck; unluckily
77. im_____nt security measures *v.* to put a decision, plan, or system into effect

ANSWERS: 65. transform, 66. exciting, 67. calculate, 68. intact, 69. nonbinary, 70. unbreakable, 71. recover, 72. implement, 73. aspect, 74. harness, 75. imaginary, 76. unfortunately, 77. implement

78. lo___e a missing pet *v.* to specify or determine the exact position of someone or something
79. tracking de___e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
80. 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
81. an_____e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning
82. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
83. laws of qu_____m mechanics *n.* the smallest amount or unit of something, especially (electromagnetic) energy
84. have si_____ly great abilities *adv.* in almost the same way
85. as___ts of social, political, and economic life *n.* one part or feature of a situation, problem, subject, etc.
86. gold st___k *n.* a long, narrow mark or band, typically one of a different color or texture from the surrounding surface; a brief period or run of success, luck, or behavior; a consistent pattern of behavior or a distinguishing characteristic of an individual
87. phy_____ly and mentally *adv.* in a way related to a person's body or appearance rather than their mind

ANSWERS: 78. locate, 79. device, 80. atom, 81. analyze, 82. medicinal, 83. quantum, 84. similarly, 85. aspect, 86. streak, 87. physically

88. a remote re____ve *adj.* considered and evaluated through comparison with something else
89. so_____re game *n.* a single-player game or activity often played with cards or on a computer; a type of diamond or jewel that is set alone in a piece of jewelry with no accompanying stones
90. a desirable ou____e *n.* the result or effect of an action, event, etc.
91. Al_____er's risk factors *n.* a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults
92. laws of ph____s *n.* the science of matter and energy and their interactions
93. the state of being we__d *adj.* extraordinary, unexpected, or difficult to explain
94. Alice's won_____nd *n.* a place or situation that is delightful or enchanting, often characterized by a dreamlike or surreal quality; a reference to the fictional world from Lewis Carroll's Alice's Adventures in Wonderland
95. de___e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
96. ins_____ize a system *v.* to establish or make something a part of an institution (= a place such as a university, hospital, etc.)

ANSWERS: 88. relative, 89. solitaire, 90. outcome, 91. Alzheimer, 92. physics, 93. weird, 94. wonderland, 95. decide, 96. institutionalize

97. perfect mi____e *n.* a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
98. ph____n energy *n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation
99. even more unf____ely *adv.* by bad luck; unluckily
100. quantum sup____ion *n.* a principle in physics that describes the combination or overlaying of two or more waves or states of matter; (of geology) the process by which layers of rock or sediment are deposited on top of one another over time
101. a sc____i movie *n.* (informal for science fiction) a genre of speculative fiction typically deals with space travel, life on other planets, time travel, etc.
102. ins____ize customary laws *v.* to establish or make something a part of an institution (= a place such as a university, hospital, etc.)
103. ex____ng football player *adj.* causing a lot of interest or excitement
104. aesthetic exc____nt *n.* a feeling of great enthusiasm and eagerness
105. unb____le bond *adj.* not able to be broken or damaged

ANSWERS: 97. mixture, 98. photon, 99. unfortunately, 100. superposition, 101. sci-fi, 102. institutionalize, 103. exciting, 104. excitement, 105. unbreakable

106. lar_____le project *adj.* involving many people or things and involving a lot of change or activity
107. ca___o floor *n.* a business or establishment that provides gambling services, such as slot machines, table games, or sports betting; a facility or venue that hosts events or entertainment, often featuring dining or recreational amenities
108. emotionally en_____le *v.* to become twisted or knotted together, especially in a way that makes it difficult to separate them; to involve in something complicated or difficult to escape
109. en_____le in wires *v.* to become twisted or knotted together, especially in a way that makes it difficult to separate them; to involve in something complicated or difficult to escape
110. res_____le for a customer service *adj.* answerable or accountable for something within one's power, control, or management
111. ch__t on my taxes *v.* to act dishonestly or unfairly to gain an advantage or to deceive someone; to break the rules or laws
112. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
113. di_____e control *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

ANSWERS: 106. large-scale, 107. casino, 108. entangle, 109. entangle, 110. responsible, 111. cheat, 112. lab, 113. disease

114. abound in in_____ty *n.* the quality of inventing things or solving problems in clever new ways
115. ac_____e success *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
116. numerous un_____in factors *adj.* not being sure of something; not being able to choose
117. co_____e the listener *v.* to mistake one thing for another; to make somebody hard to understand
118. id_____ty as an individual *n.* the fact of being who or what somebody or something is; the features, emotions, or ideas that distinguish persons from one another
119. nuclear ph_____s *n.* the science of matter and energy and their interactions
120. re_____ve factors *adj.* considered and evaluated through comparison with something else
121. the most am_____g feeling *adj.* extremely surprising, especially in a way that you like or admire
122. di_____e prevention *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
123. ca_____te the distance *v.* to judge or find out the amount or number of something by using mathematics
124. theory of com_____on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator

ANSWERS: 114. ingenuity, 115. achieve, 116. uncertain, 117. confuse, 118. identity, 119. physics, 120. relative, 121. amazing, 122. disease, 123. calculate, 124. computation

125. plenty of fl__ds *n.* a substance that can flow and is not solid
126. lar_____le agriculture *adj.* involving many people or things and involving a lot of change or activity
127. re_____ly operate *adv.* at a distance; not directly or easily accessible
128. h__k into the program *v.* to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks
129. flow of el_____ons *n.* a tiny particle with the negative electrical charge
130. get inc_____ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
131. s__r up controversy *v.* to mix a liquid or substance by using a spoon or something similar; to cause to be agitated, excited, or roused
132. de_____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
133. charged pa_____le *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
134. te_____rt objects through space *v.* to transport or transmit instantly from one location to another, typically using advanced technology or imagined supernatural powers

ANSWERS: 125. fluid, 126. large-scale, 127. remotely, 128. hack, 129. electron, 130. incredibly, 131. stir, 132. develop, 133. particle, 134. teleport

135. the re___d for good works *n.* a thing given in acknowledgment of service, hard work, achievement, etc.
136. 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
137. electronic de___e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
138. parallel com_____on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
139. draft a pr____ol *n.* a set of rules or procedures for transmitting data or conducting a process or activity, especially in computer networks or scientific experiments; the initial or original version of an agreement
140. ph___n emission *n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation
141. pro_____tic model *adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
142. tr__d water *v.* to step or walk on something

ANSWERS: 135. reward, 136. universe, 137. device, 138. computation, 139. protocol, 140. photon, 141. probabilistic, 142. tread

143. the exc_____nt in the business world *n.* a feeling of great enthusiasm and eagerness
144. pa_____le energy *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
145. talented ph_____st *n.* a scientist who specializes in the field of physics
146. in____t brain *adj.* undamaged and complete
147. stay phy_____ly fit *adv.* in a way related to a person's body or appearance rather than their mind
148. back f_n *n.* a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance
149. pr_____ol breach *n.* a set of rules or procedures for transmitting data or conducting a process or activity, especially in computer networks or scientific experiments; the initial or original version of an agreement
150. pr__e for inside information *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
151. my_____y novel *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

ANSWERS: 143. excitement, 144. particle, 145. physicist, 146. intact, 147. physically, 148. fin, 149. protocol, 150. probe, 151. mystery

152. genic com_____ons *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
153. pro_____tic approach *adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
154. abs_____ly obsessed with the girl *adv.* without restriction or limitation; completely or utterly
155. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
156. a broad sp_____um of opinion *n.* an ordered array of colors into which a light beam can be split
157. no_____ry identities *adj.* someone who does not identify as a man or a woman; not relating to, composed of, or including only two things
158. an_____e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
159. sup_____ion theorem *n.* a principle in physics that describes the combination or overlaying of two or more waves or states of matter; (of geology) the process by which layers of rock or sediment are deposited on top of one another over time
160. control re_____ly *adv.* at a distance; not directly or easily accessible
161. 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

ANSWERS: 152. combination, 153. probabilistic, 154. absolutely, 155. molecule, 156. spectrum, 157. nonbinary, 158. analyze, 159. superposition, 160. remotely, 161. discovery

162. the infinite in_____ty of man *n.* the quality of inventing things or solving problems in clever new ways
163. abs_____ly against *adv.* without restriction or limitation; completely or utterly
164. low-r_v engine *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
165. en_____s hours *adj.* having no end or conclusion; infinitely very large in size or amount
166. a lily b__b *n.* a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball
167. the tra_____ion gears of a car *n.* the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television
168. im_____ry number *adj.* existing only in someone's mind
169. energy-ef_____nt appliances *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
170. sup_____ter performance *n.* a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing

ANSWERS: 162. ingenuity, 163. absolutely, 164. rev, 165. endless, 166. bulb, 167. transmission, 168. imaginary, 169. efficient, 170. supercomputer

171. de___e on a course of action *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
172. ef_____nt operation *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
173. computer op_____nt *n.* a person against whom you are playing or fighting in a game, competition, debate, etc.
174. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
175. pr_____e analyses *adj.* sharply exact or accurate or delimited
176. fl__d assets *n.* a substance that can flow and is not solid
177. mistaken id_____ty *n.* the fact of being who or what somebody or something is; the features, emotions, or ideas that distinguish persons from one another
178. unsolved my_____y *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
179. improved student ou_____es *n.* the result or effect of an action, event, etc.

ANSWERS: 171. decide, 172. efficient, 173. opponent, 174. discovery, 175. precise, 176. fluid, 177. identity, 178. mystery, 179. outcome

180. probabilistic qu_____m theory *n.* the smallest amount or unit of something, especially (electromagnetic) energy
181. a f_n of a plane *n.* a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance
182. pos_____ty for growth *n.* a chance that something may happen or be true
183. fun_____al education *adj.* forming an essential base or core from which everything else develops or is affected
184. infrared sp_____um *n.* an ordered array of colors into which a light beam can be split
185. business ho_____n *n.* the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
186. a ma__c spell *n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers

ANSWERS: 180. quantum, 181. fin, 182. possibility, 183. fundamental, 184. spectrum, 185. horizon, 186. magic

Session 3: Fill in the Blanks

1. The light _____ has burned out.
n. a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball
2. He performed _____ tricks with sophisticated moves.
n. beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers
3. The magician seemed to _____ instantly from one side of the stage to the other.
v. to transport or transmit instantly from one location to another, typically using advanced technology or imagined supernatural powers
4. Parents often _____ their characteristics to their children.
v. to send or forward an electronic signal; to pass something from one person or thing to another
5. The outermost _____ shell determines the chemical properties of an atom.
n. a tiny particle with the negative electrical charge
6. He studied the _____ of radiation.
n. the science of matter and energy and their interactions
7. 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

ANSWERS: 1. bulb, 2. magic, 3. teleport, 4. transmit, 5. electron, 6. physics, 7. probe

8. The vines of the plant _____ themselves around the trellis.
- v.* to become twisted or knotted together, especially in a way that makes it difficult to separate them; to involve in something complicated or difficult to escape
9. 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
10. In a _____ system, the outcome is uncertain and can vary based on chance.
- adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
11. The colorful garden was a _____ of various plants and flowers.
- n.* a place or situation that is delightful or enchanting, often characterized by a dreamlike or surreal quality; a reference to the fictional world from Lewis Carroll's Alice's Adventures in Wonderland
12. The doctor diagnosed him with a rare _____ that had no known cure.
- n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
13. The robot can accurately _____ construction material.
- v.* to specify or determine the exact position of someone or something
14. Despite the scandals, his reputation remained _____.
- adj.* undamaged and complete
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

ANSWERS: 8. entangled, 9. computation, 10. probabilistic, 11. wonderland, 12. disease, 13. locate, 14. intact, 15. molecule

16. The golfer recorded an _____ distance.

adj. extremely surprising, especially in a way that you like or admire

17. Her remarks _____ the debate.

v. to mistake one thing for another; to make somebody hard to understand

18. 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

19. The new policy aims to _____ the use of renewable energy sources.

v. to establish or make something a part of an institution (= a place such as a university, hospital, etc.)

20. The _____ properties of this herb have been known to help with various ailments.

adj. of or relating to the treatment or cure of disease

21. Einstein was an outstanding and famous _____ of the 20th century.

n. a scientist who specializes in the field of physics

22. Firstly, we will discuss the budget; _____ we will go over the schedule.

adv. used to introduce the second point or item in a list or series of statements, considerations, etc.

23. Little children tend to have _____ friends.

adj. existing only in someone's mind

ANSWERS: 16. amazing, 17. confused, 18. universe, 19. institutionalize, 20. medicinal, 21. physicist, 22. secondly, 23. imaginary

24. The Prime Minister will pay a courtesy visit to the Nobel laureate's ____.
- n.* a workplace for the conduct of scientific research; a laboratory
25. Human behavior has _____ characteristics.
- adj.* forming an essential base or core from which everything else develops or is affected
26. The _____ surrounding the disappearance of the traveler has yet to be solved by authorities.
- n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
27. The government promised to _____ a new system to control the financial crisis.
- v.* to put a decision, plan, or system into effect
28. I will work hard to _____ my goals and realize my dreams.
- v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
29. I won \$100 at the _____ last night playing blackjack.
- n.* a business or establishment that provides gambling services, such as slot machines, table games, or sports betting; a facility or venue that hosts events or entertainment, often featuring dining or recreational amenities
30. The company is planning to make a _____ expansion of its factory.
- adj.* involving many people or things and involving a lot of change or activity
31. We must _____ a new system to streamline our workflow and increase efficiency.
- v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 24. lab, 25. fundamental, 26. mystery, 27. implement, 28. achieve, 29.

casino, 30. large-scale, 31. develop

32. This blog offers a variety of tips for _____ everyday life.
- v.* to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks
33. As the sun set, the colors of the sky merged with the _____ creating a beautiful orange and pink hue.
- n.* the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
34. Infrared cameras detect _____ in the infrared range of the electromagnetic spectrum.
- n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation
35. The teacher attempted to _____ the root cause of our mistake.
- v.* to think about in-depth and evaluate to discover essential features or meaning
36. He was attempting to confuse his _____.
- n.* a person against whom you are playing or fighting in a game, competition, debate, etc.
37. Night fishing has a lot of _____.
- n.* a thing given in acknowledgment of service, hard work, achievement, etc.
38. My computer has been acting _____ recently.
- adj.* extraordinary, unexpected, or difficult to explain
39. The _____ of getting the disease will drastically increase.
- n.* a chance that something may happen or be true

ANSWERS: 32. hacking, 33. horizon, 34. photons, 35. analyze, 36. opponent, 37. rewards, 38. weird, 39. possibility

40. People have been exploring ways to _____ natural forces and resources since ancient times.

- v.* to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object

41. 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

42. We can use this campaign as a bargaining _____ in the negotiations.

- n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

43. More and more people in various countries believe that the policymaker should change the marriage rules for _____ people.

- adj.* someone who does not identify as a man or a woman; not relating to, composed of, or including only two things

44. This device displayed the speech _____ spectrographically.

- n.* an ordered array of colors into which a light beam can be split

45. My grandmother has _____ disease requires special care and attention from her caregivers.

- n.* a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults

46. I am _____ opposed to his idea because of morality.

- adv.* without restriction or limitation; completely or utterly

47. She is still _____ from a shot to her shoulder.

- v.* to return to a former condition, health, mind, or strength

ANSWERS: 40. harness, 41. physically, 42. chip, 43. nonbinary, 44. spectrum, 45. Alzheimer's, 46. absolutely, 47. recovering

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

n. a substance that can flow and is not solid

49. The _____ to the safe was a secret.

n. a collection of things that have been combined; an assemblage of separate parts or qualities

50. 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

51. 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

52. He is a gadget buff and _____ enthusiast.

n. (informal for science fiction) a genre of speculative fiction typically deals with space travel, life on other planets, time travel, etc.

53. Several cities are experiencing _____ high unemployment rates.

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

54. The content is _____ and informative for me.

adj. sharply exact or accurate or delimited

55. He _____ carefully on the slippery ice.

v. to step or walk on something

56. The shark's powerful _____ allowed it to swim at high speeds.

n. a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance

ANSWERS: 48. fluid, 49. combination, 50. simulate, 51. flipped, 52. sci-fi, 53. incredibly, 54. precise, 55. treads, 56. fins

57. Please write to _____ your reservation.

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

58. My grandmother loved to play _____ with a deck of cards every afternoon.

- n.* a single-player game or activity often played with cards or on a computer; a type of diamond or jewel that is set alone in a piece of jewelry with no accompanying stones

59. He had a _____ of stubbornness that made him difficult to work with.

- n.* a long, narrow mark or band, typically one of a different color or texture from the surrounding surface; a brief period or run of success, luck, or behavior; a consistent pattern of behavior or a distinguishing characteristic of an individual

60. The company can _____ access its employees' computers for troubleshooting purposes.

- adv.* at a distance; not directly or easily accessible

61. To protect their sensitive information, many businesses _____ their files.

- v.* to convert information or data into a code, thereby making it unreadable without a key or password; to conceal or obscure information in a way that makes it inaccessible to unauthorized persons

62. How can you _____ that the earth is a sphere?

- v.* to display something or give an exhibition to an interested audience

63. The _____ of the upcoming concert was palpable among the crowd.

- n.* a feeling of great enthusiasm and eagerness

64. He looked out the window at the _____ stream of people.

- adj.* having no end or conclusion; infinitely very large in size or amount

ANSWERS: 57. confirm, 58. solitaire, 59. streak, 60. remotely, 61. encrypt, 62. demonstrate, 63. excitement, 64. endless

65. Big techs are now eager to develop _____ computers.
n. the smallest amount or unit of something, especially (electromagnetic) energy
66. China has developed one of the world's fastest _____ for its space program.
n. a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing
67. His professional experience includes all _____ of media production.
n. one part or feature of a situation, problem, subject, etc.
68. She couldn't _____ whether to order the pizza or the pasta for dinner.
v. to make up someone's mind about something; to come to a conclusion or judgment after considering options
69. I always carry a backup _____ in case my phone runs out of battery.
n. a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
70. Topics related to that war may _____ up a political hornets' nest.
v. to mix a liquid or substance by using a spoon or something similar; to cause to be agitated, excited, or roused
71. The findings of the experiment were both _____ and unexpected.
adj. causing a lot of interest or excitement
72. We argue that wages for temporary workers should _____ rise.
adv. in almost the same way

ANSWERS: 65. quantum, 66. supercomputers, 67. aspects, 68. decide, 69. device, 70. stir, 71. exciting, 72. similarly

73. He stepped on the gas pedal, and the engine released a loud ____.
- n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
74. They awaited news of the _____ of the election.
- n.* the result or effect of an action, event, etc.
75. My father's death _____ my life completely.
- v.* to change in outward structure or looks;
76. The terrorist's _____ remains unknown.
- n.* the fact of being who or what somebody or something is; the features, emotions, or ideas that distinguish persons from one another
77. 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
78. She was _____ about her friend's intentions.
- adj.* not being sure of something; not being able to choose
79. 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
80. The treatments were done but, _____ were unsuccessful.
- adv.* by bad luck; unluckily

ANSWERS: 73. rev, 74. outcome, 75. transformed, 76. identity, 77. discovery, 78. uncertain, 79. particles, 80. unfortunately,

81. She's a _____ pet owner who ensures her dog gets enough exercise and a healthy diet.

adj. answerable or accountable for something within one's power, control, or management

82. We _____ taking media training every six months.

v. to suggest that someone or something would be a suitable fit for a particular purpose or role

83. Creativity and _____ are often brought about by extreme concentration.

n. the quality of inventing things or solving problems in clever new ways

84. Even though he knew it was wrong, he _____ on the exam.

v. to act dishonestly or unfairly to gain an advantage or to deceive someone; to break the rules or laws

85. 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

86. He couldn't _____ the actual value of the artwork.

v. to judge or find out the amount or number of something by using mathematics

87. The new washing machine is much more _____ than the old one.

adj. performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials

88. Most countries prohibit sexual activity between certain close _____.

adj. considered and evaluated through comparison with something else

ANSWERS: 81. responsible, 82. recommend, 83. ingenuity, 84. cheated, 85. atom, 86. calculate, 87. efficient, 88. relatives

89. The paint was a _____ of different pigments to achieve the desired color.
- n.* a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
90. The _____ of waves can result in either constructive or destructive interference.
- n.* a principle in physics that describes the combination or overlaying of two or more waves or states of matter; (of geology) the process by which layers of rock or sediment are deposited on top of one another over time
91. Education is the _____ of civilization.
- n.* the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television
92. The company has a strict _____ for handling sensitive information to ensure security.
- n.* a set of rules or procedures for transmitting data or conducting a process or activity, especially in computer networks or scientific experiments; the initial or original version of an agreement
93. This titanium bike frame is advertised as _____.
- adj.* not able to be broken or damaged

ANSWERS: 89. mixture, 90. superposition, 91. transmission, 92. protocol, 93. unbreakable