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Vocabulary Builder Reference from...

Justin Hall-Tipping: Freeing energy from the grid |

TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

iceberg

n. a large piece of ice floating in the sea, detached from a glacier

synonym : glacier, ice mass, floe

(1) hit an **iceberg**, (2) **iceberg** melting

The ship encountered a series of **icebergs** and had to change its course.

norm

n. something that is regarded as usual, typical, or standard

synonym : criterion, mean, standard

(1) **norm** of action, (2) cultural **norm**

The systems we have developed has accepted as industry **norms**.

process

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

synonym : procedure, method, system

(1) **process** improvement, (2) decision-making **process**

The **process** for applying for a visa can be lengthy and complicated.

normally

adv. usually; under normal conditions

synonym: commonly, generally, naturally

(1) complete **normally**, (2) not **normally** drink much

I don't **normally** take a vacation in the middle of summer.

replace

v. to take the place of something

synonym: substitute, supersede, displace

(1) **replace** one word with another, (2) **replace** a phone

Eventually, the new design will **replace** all older models.

opposition

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

synonym: resistance, hostility, antagonism

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

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

bump

v. to hit or knock against something hard, often with a dull sound; to meet with by accident

synonym: collide, hit, jolt

(1) **bump** against a wall, (2) **bump** up prices

She accidentally **bumped** into him in the crowded room.

weigh

v. to have a particular weight; to carefully evaluate things before making a conclusion

synonym: consider, cogitate, count

(1) **weigh** heavily on stock prices, (2) **weigh** a cargo

The baby **weighs** 1 pound 3 oz.

gigaton

n. a unit of explosive energy equal to one billion tons of TNT (= a powerful, yellow explosive substance); one billion tons

(1) **gigaton-class** bomb, (2) half a **gigaton** of CO₂

The earthquake that hit the Pacific Ocean last night is said to have released about 30 **gigatons** of energy.

perspective

n. a confident attitude toward something; a particular style of thinking about something

synonym: viewpoint, standpoint, outlook

(1) a **perspective** view, (2) the **perspective** of the battle
His father's death changed his whole **perspective** on life.

humming

adj. producing a continuous, low, vibrating sound like that of the bee

synonym: buzzing, droning, vibrating

(1) **humming** sound, (2) **humming** bird

The **humming** of the bees filled the air as she walked through the garden.

lens

n. a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation

synonym: glass

(1) a convex **lens**, (2) a **lens** with a wide angle

The photographer took this photo using a telephoto **lens**.

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.

arguably

adv. used when expressing an opinion or idea that you believe can be proven true

synonym: probably, possibly

(1) she is **arguably** the best singer, (2) **arguably** the greatest discovery

He is **arguably** regarded as the finest actor of his generation.

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**.

sequence

n. a series of related events, actions, numbers, etc., which have a particular order

synonym: arrangement, succession, series

(1) the **sequence** of the seasons, (2) the DNA **sequence**

We do move forward with those tasks in **sequence** next week.

genome

n. the complete set or sequence of genes of a human, animal, plant, or other living things

(1) sequencing of the human **genome**, (2) **genome** analyses

The human **genome** contains approximately three billion chemical base pairs.

trillion

n. the number 1,000,000,000,000; a million million

(1) **trillion** cubic feet, (2) many **trillions** of dollars

One light year is nearly 6 **trillion** miles.

unwind

v. to relax and release tension, often by engaging in leisure activities or by simply resting; to reverse the winding or twisting of something

synonym: relax, de-stress, unroll

(1) **unwind** after work, (2) **unwind** on vacation

I like to **unwind** with a good book after a long day at work.

meter

n. a device used to measure the amount of a particular substance or attribute, such as length, volume, or time;

(prosody) the accent in a metrical foot of verse

synonym : gauge, indicator, rhythm

(1) a gas **meter**, (2) poetic **meter**

The **meter** on the wall showed that the room was three meters long.

nanoscale

adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

(1) **nanoscale** device, (2) things at the **nanoscale**

This process improves the strength of the metal by controlling the **nanoscale** lattice structure of the metal.

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.

worthless

adj. having no value or usefulness; not worth considering

synonym : valueless, useless, pointless

(1) **worthless** stock, (2) **worthless** coin

The product was found to be **worthless** as it failed to meet the customer's expectations.

mere

adj. used to emphasize how insignificant or minor someone or something is

synonym : bare, minor, sheer

(1) **mere** acquaintance, (2) **mere** incident

He lost the election by **mere** votes.

addition

n. the act or process of adding something to something else; the process of adding numbers

synonym : accumulation, expansion, addendum

(1) chemical **addition**, (2) **addition** of vectors

In **addition**, private corporations provide healthcare services.

subtraction

n. the process or action of removing one number from another; the mathematical operation of finding the difference between two numbers or quantities

synonym: deduction, minus, withdrawal

(1) **subtraction** equation, (2) double-digit **subtraction**

The **subtraction** of expenses from revenue resulted in a net profit for the company.

exquisite

adj. extremely beautiful and delicate

synonym: magnificent, glorious, gorgeous

(1) **exquisite** crafts, (2) a man of **exquisite** sensitivity

We can hear an **exquisite** piano melody from his room.

essence

n. the basic or most important part or quality of something that makes it what it is

synonym: core, nature, disposition

(1) vanilla **essence**, (2) universal **essence**

University teaches the art of understanding the **essence** of the matter.

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.

collective

adj. done or shared by every member of a group of people

synonym: composite, concerted, cumulative

(1) right to **collective** bargaining, (2) **collective** ownership

Product development is a **collective** effort.

extraordinary

adj. exceptional, unexpected, very unusual; surpassing the ordinary or usual

synonym: exceptional, noteworthy, astonishing

(1) **extraordinary** ability, (2) **extraordinary** weather
He narrated the **extraordinary** story of his adventure.

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.

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**.

burning

adj. intense or scorching heat

synonym : scorching, blazing, smoldering

(1) **burning** desire, (2) **burning** passion

The fire spread rapidly, engulfing everything in its path in a **burning** inferno.

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.

generate

v. to produce or create something; to make offspring by reproduction

synonym : create, yield, produce

(1) **generate** more electricity, (2) **generate** \$100 a month
The economic stimulation program would **generate** a lot of new jobs.

cheaply

adv. in a stingy or inexpensive manner

synonym : inexpensively, tattily, stingily

(1) **cheaply** available, (2) buy stock **cheaply**

You can live very **cheaply** in Southeast Asia.

tremendous

adj. very great in degree or extent or amount or impact; extremely good

synonym : enormous, giant, immense

(1) **tremendous** amount, (2) **tremendous** popularity

We had a **tremendous** time yesterday.

flick

v. to make a sudden sharp movement or hit something quickly with a sharp movement

synonym : snap, tap, flip

(1) **flicker** candle, (2) **flick** through pages

He **flicked** the light switch, and the room was illuminated.

remarkable

adj. worthy of attention because unusual or special

synonym : outstanding, exceptional, extraordinary

(1) **remarkable** achievement, (2) the **remarkable** breadth of knowledge

The election was a **remarkable** success for the Whigs.

carbon

n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

(1) **carbon** dioxide, (2) **carbon** emission

Trees absorb **carbon** dioxide and give off oxygen.

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.

reaction

n. a response that reveals a person's feelings or attitude;
(in chemistry) a process in which one or more
substances are changed into others

synonym : response, reply, answer

(1) chemical **reaction**, (2) trigger a **reaction**

There was a chemical **reaction** of the lime with the
groundwater.

graphite

n. a soft, black, lustrous form of carbon that is conductive
and used as a lubricant and in pencils and electrodes in
electrical devices

synonym : carbon, black lead, plumbago

(1) **graphite** pencil, (2) **graphite** mine

The **graphite** in the brake pads helps to reduce friction during
braking.

blast

n. explosion, or a strong current of air, usually caused by
an explosion; a sudden, thunderous noise

synonym : blow, burst, explosion

(1) a **blast** of wind, (2) an icy **blast**

The **blast** shattered the laboratory equipment.

vapor

n. a mass of tiny liquid drops in the air

synonym : condensation, dew, fog

(1) alcohol **vapor**, (2) water **vapor** in the atmosphere

Clouds form when water **vapor** rises to the upper
atmosphere.

condense

v. to reduce the volume or size of something, often by
removing water or other liquid; to make something
shorter, more concise, or more concentrated

synonym : compress, compact, shorten

(1) **condense** the text, (2) **condense** water vapor

I need to **condense** all of my notes into a manageable
summary for my presentation.

chickenwire

n. (also known as "poultry netting") a type of woven wire mesh made of thin galvanized steel or other materials, typically used in construction, fencing, or as a protective barrier

synonym: hex netting, mesh fencing, poultry netting

(1) **chickenwire** netting, (2) **chickenwire** mesh

The chicken coop was built using sturdy **chickenwire** to keep the chickens safe.

roll

v. to move in a particular direction by turning over and over or from side to side

synonym: spin, swirl, wheel

(1) **roll** a ball, (2) **roll** down his cheeks

He was exhausted and **rolled** into bed as soon as he got home.

nanotube

n. a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science

(1) **nanotube** technology, (2) metallic **nanotube**

Carbon **nanotubes** are used in various fields of science and technology due to their unique properties.

conductivity

n. the quality of a material's ability to conduct electricity, heat, etc.

synonym: conduction

(1) low **conductivity**, (2) electrical **conductivity**

High thermal **conductivity** is also essential for the exterior of the machine.

copper

n. a chemical element that is a soft, malleable, and ductile metal with very high thermal and electrical conductivity

(1) **copper** alloy, (2) **copper** belt

He made the old **copper** coins shine.

transparent

adj. easy to perceive, detect, or understand; (of a material or article) permitting light to pass through freely

synonym: translucent, evident, diaphanous

(1) a **transparent** lie, (2) **transparent** crystal

The focus of these initiatives is to make the financial system more **transparent**.

flexible

adj. able to change or be changed to suit new conditions or situations; able to bend easily

synonym: adaptable, elastic, pliable

(1) **flexible** schedules, (2) a **flexible** wire

You can be more **flexible** and creative in your approach.

combine

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

synonym: coalesce, cohere, blend

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

(2) **combine** augmented reality

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

polymer

n. a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules

(1) **polymer** fiber, (2) biological **polymer**

We are developing plant-derived **polymers** to reduce environmental impact.

affix

v. to attach or add something to something else

synonym: attach, paste, stick

(1) **affix** a label, (2) **affix** a seal to a document

She **affixed** a stamp to the letter before mailing it.

bleach

v. to remove color or stains, whiten, or sterilize using a solution of chemicals or other substances, such as bleach

synonym: whiten, lighten, blanch

(1) **bleach** stains, (2) **bleach** hair

I need to **bleach** this shirt to remove the stains.

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.

volt

n. a unit of measurement for electrical potential difference or electromotive force, equal to the force required to move one ampere of electric charge through one ohm of resistance

synonym: electric potential, V

(1) **volt** meter, (2) 12- **volt** battery

The battery has a low **volt** output, insufficient to power the device.

pulse

n. the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

synonym: beat, vibration, throb

(1) a weak **pulse**, (2) **pulse** waves

The cardiac monitor displays the intensity of your **pulse**.

incredible

adj. unbelievable; enormous

synonym: unbelievable, fantastical, inconceivable

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

Her response revealed **incredible** idiocy.

corridor

n. a hallway or passageway, especially one connecting rooms or areas within a building or structure

synonym: hallway, passageway, aisle

(1) walk along a **corridor**, (2) air **corridor**

The long **corridor** was filled with people rushing to get to their rooms before the meeting began.

- rely**
- v. to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
- synonym* : depend, count, lean
- (1) **rely** on convenience stores, (2) **rely** entirely on him
Babies heavily **rely** on others for food.
- artificial**
- adj.* not natural and made by human beings; not real but produced to resemble something
- synonym* : synthetic, man-made, manufactured
- (1) **artificial** flowers, (2) **artificial** environment
The **artificial** intelligence system has revolutionized the way we live and work.
- 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.
- decimal**
- adj.* based on or counted in the number 10
- synonym* : base-10, denary, ten-based
- (1) **decimal** system, (2) an infinite **decimal**
The **decimal** point separates the whole number from the fractional part.
- infrared**
- adj.* relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control
- synonym* : thermal, warm, radiant
- (1) an **infrared** lamp, (2) **infrared** radiation
The **infrared** camera revealed a hidden image on the surface.
- convert**
- v. to have a talk with someone; (adjective) reversed in order, relation, or action

synonym : alter, remake, transform

(1) **convert** fat into energy, (2) **convert** base 10 to base 16
I want to **convert** my sadness into strength.

enabling

adj. providing the means, support, or resources necessary for something to happen or be achieved; allowing or encouraging a particular behavior or activity

synonym : facilitating, empowering, authorized

(1) **enabling** infrastructure, (2) **enabling** mindset

Enabling technologies allows people with disabilities to lead more independent lives.

operate

v. to work in a particular way; to supervise something

synonym : work, use, employ

(1) **operate** 24 hours a day, (2) manually **operate** a machine

This machine is too difficult to **operate** for me.

transparency

n. the condition or quality of being easy to see through

synonym : clearness, clarity, translucence

(1) lack of **transparency**, (2) **transparency** during the trials

The main discussion topic is government **transparency**.

clarity

n. the quality of being coherent and understandable; the quality of transparency or purity

synonym : clearness, translucence, brightness

(1) lack of **clarity**, (2) sake of **clarity**

The publisher will proofread most of this manuscript for **clarity**.

dawn

n. the time of day when the sun's light starts to show in the sky

synonym : daybreak, sunrise, advent

(1) the wan light of **dawn**, (2) crack of **dawn**

Missile assaults on the capital continued around **dawn**.

radiation

n. the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health

synonym : dissemination, emission, irradiation

(1) exposure to **radiation**, (2) electromagnetic **radiation**

He tried every possible treatment, including chemotherapy and **radiation** therapy.

wavelength

n. the distance between two points in the same phase in consecutive cycles of a wave

(1) **wavelength** of light, (2) long- **wavelength** laser

White color is made up of many different **wavelengths** of light.

suddenly

adv. quickly and unexpectedly

synonym : abruptly, unexpectedly, unawares

(1) **suddenly** attacked by an enemy, (2) die **suddenly**

Who answers **suddenly** knows little.

stick

v. to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

synonym : pierce, adhere, stay

(1) **stick** a key in a lock, (2) fire **stick**

You **stick** a bill in the change machine, and the coins pop out.

whatsoever

adv. not at all; no matter what

synonym : in any way, at all, in any respect

(1) **whatsoever** it be, (2) without impact **whatsoever**

He refused to do anything **whatsoever** to help her.

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.

acid

n. sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials

synonym : sour

(1) an **acid** reaction, (2) good source of essential amino **acids**

During pregnancy, the stomach generates less **acid** than usual.

battery

n. a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them

synonym : electric cell, array, batch

(1) a dry **battery**, (2) **battery** charging

The engine did not start because the **battery** was flat.

doll

n. a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive

synonym : puppet, dolly, toy

(1) plastic **doll**, (2) rag **doll**

The antique **doll** was worth thousands of dollars.

basement

n. a room or a part of a building that is partly or entirely below ground level

synonym : cellar, storage, vault

(1) four **basement** floor, (2) church **basement**

Underground rivers flow over a **basement** layer that is impervious to water.

diagram

n. a simplified illustration of the appearance, structure, or workings of something

synonym : chart, figure, graph

(1) 3D **diagram**, (2) in a **diagram**

He is drawing a **diagram** illustrating how the equipment

operates.

din *n.* a loud, confused noise; a loud, persistent racket
synonym: noise, racket, clamor
(1) **din** of traffic, (2) mighty **din**
The **din** of the city was overwhelming.

release *v.* to set free or allow to escape from confinement
synonym: free, let go, discharge
(1) **release** a prisoner, (2) **release** CO2 into the air
The animal rights group worked to **release** the dolphins back into the wild.

efficiently *adv.* in a way that produces maximum output with minimum effort or expense
synonym: expeditiously, skillfully, ably
(1) **efficiently** combined, (2) develop software more **efficiently**
We can resolve support requests quickly and **efficiently** by utilization of AI.

beam *n.* a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source
synonym: ray, ray of light, shaft of light
(1) **beam** of light, (2) a structural **beam** of a building
The sun's **beam** shone through the window and illuminated the room.

grid *n.* a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region
synonym: gridiron, battery grid, power system
(1) a **grid** design, (2) a wire **grid**
Grid pattern roads often appear in urban areas.

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.

puzzle

n. a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand

synonym : plight, maze, (verb) perplex

(1) crossword **puzzle**, (2) mathematical **puzzle**

This jigsaw **puzzle** is challenging because there are no pictures.

desalination

n. the process of removing salt, especially from seawater

(1) shut down a **desalination** plant, (2) water **desalination**

He worked on improving the equipment using the freeze-**desalination** method.

supple

adj. flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas

synonym : flexible, pliable, bendable

(1) **supple** muscles, (2) **supple** leather

The ballerina's **supple** movements left the audience mesmerized.

pump

v. to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities

synonym : drain, inject, send

(1) **pump** a secret out of success, (2) **pump** blood throughout the body

He was alert and could not **pump** any critical information out of him.

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.

brilliant

adj. extremely clever, skilled, or impressive

synonym: luminous, intelligent, clever

(1) **brilliant** idea, (2) **brilliant** performance

The more **brilliant** you are, the more people around you look at you with envy and jealousy.

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.

photograph

n. a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film

synonym: photo, picture, snapshot

(1) **photograph** album, (2) **photograph** memories

I found an old **photograph** of my grandparents from their wedding day.

famine

n. a severe shortage of food, often caused by drought, war, or economic reasons

synonym: hunger, starvation, drought

(1) **famine** relief, (2) coal **famine**

The severe **famine** caused by the drought has left many people without food.

thirst

n. a feeling of needing something to drink; a strong desire for something

synonym: craving, desire, appetite

(1) a burning **thirst**, (2) **thirst** for authority

He read books to quench his **thirst** for knowledge.

Session 2: Spelling

1. mathematical pu___e *n.* a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand
2. unf_____ely caught in a shower *adv.* by bad luck; unluckily
3. gr_____te mine *n.* a soft, black, lustrous form of carbon that is conductive and used as a lubricant and in pencils and electrodes in electrical devices
4. un___d on vacation *v.* to relax and release tension, often by engaging in leisure activities or by simply resting; to reverse the winding or twisting of something
5. op_____e 24 hours a day *v.* to work in a particular way; to supervise something
6. inc_____ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
7. trigger a re_____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
8. po_____r fiber *n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules

ANSWERS: 1. puzzle, 2. unfortunately, 3. graphite, 4. unwind, 5. operate, 6. incredibly, 7. reaction, 8. polymer

9. r__y entirely on him *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
10. a per_____ve view *n.* a confident attitude toward something; a particular style of thinking about something
11. many tr_____ons of dollars *n.* the number 1,000,000,000,000; a million million
12. tr_____it information *v.* to send or forward an electronic signal; to pass something from one person or thing to another
13. hu_____g sound *adj.* producing a continuous, low, vibrating sound like that of the bee
14. ge_____te \$100 a month *v.* to produce or create something; to make offspring by reproduction
15. pho_____ph memories *n.* a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film
16. un_____d after work *v.* to relax and release tension, often by engaging in leisure activities or by simply resting; to reverse the winding or twisting of something
17. an a__d reaction *n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials

ANSWERS: 9. rely, 10. perspective, 11. trillion, 12. transmit, 13. humming, 14. generate, 15. photograph, 16. unwind, 17. acid

18. en____ng mindset *adj.* providing the means, support, or resources necessary for something to happen or be achieved; allowing or encouraging a particular behavior or activity
19. good source of essential amino a__ds *n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
20. co____r belt *n.* a chemical element that is a soft, malleable, and ductile metal with very high thermal and electrical conductivity
21. the se____ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
22. co____r alloy *n.* a chemical element that is a soft, malleable, and ductile metal with very high thermal and electrical conductivity
23. af__x a label *v.* to attach or add something to something else
24. d_n of traffic *n.* a loud, confused noise; a loud, persistent racket
25. gi____n-class bomb *n.* a unit of explosive energy equal to one billion tons of TNT (= a powerful, yellow explosive substance); one billion tons
26. tr____it the disease *v.* to send or forward an electronic signal; to pass something from one person or thing to another

ANSWERS: 18. enabling, 19. acid, 20. copper, 21. sequence, 22. copper, 23. affix, 24. din, 25. gigaton, 26. transmit

27. she is ar_____ly the best singer *adv.* used when expressing an opinion or idea that you believe can be proven true
28. wha_____er it be *adv.* not at all; no matter what
29. chi_____re mesh *n.* (also known as "poultry netting") a type of woven wire mesh made of thin galvanized steel or other materials, typically used in construction, fencing, or as a protective barrier
30. br_____nt performance *adj.* extremely clever, skilled, or impressive
31. art_____al flowers *adj.* not natural and made by human beings; not real but produced to resemble something
32. long-wav_____th laser *n.* the distance between two points in the same phase in consecutive cycles of a wave
33. in a di_____m *n.* a simplified illustration of the appearance, structure, or workings of something
34. bu_____g desire *adj.* intense or scorching heat
35. bu_____g passion *adj.* intense or scorching heat
36. fl__k through pages *v.* to make a sudden sharp movement or hit something quickly with a sharp movement
37. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
38. exposure to ra_____on *n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health

ANSWERS: 27. arguably, 28. whatsoever, 29. chickenwire, 30. brilliant, 31. artificial, 32. wavelength, 33. diagram, 34. burning, 35. burning, 36. flick, 37. lab, 38. radiation

39. tr_____on cubic feet *n.* the number 1,000,000,000,000; a million million
40. a gas me__r *n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse
41. pr_____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
42. de___t smuggling across borders *v.* to find or recognize something, especially something difficult to see, hear, etc.
43. the most am_____g feeling *adj.* extremely surprising, especially in a way that you like or admire
44. chemical ad_____on *n.* the act or process of adding something to something else; the process of adding numbers
45. cultural n__m *n.* something that is regarded as usual, typical, or standard
46. tra_____ncy during the trials *n.* the condition or quality of being easy to see through
47. 12-v__t battery *n.* a unit of measurement for electrical potential difference or electromotive force, equal to the force required to move one ampere of electric charge through one ohm of resistance

ANSWERS: 39. trillion, 40. meter, 41. process, 42. detect, 43. amazing, 44. addition, 45. norm, 46. transparency, 47. volt

48. we__h a cargo *v.* to have a particular weight; to carefully evaluate things before making a conclusion
49. 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
50. a structural b__m of a building *n.* a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source
51. su___e muscles *adj.* flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
52. hit an ic____g *n.* a large piece of ice floating in the sea, detached from a glacier
53. st__k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
54. a l__s with a wide angle *n.* a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation
55. ic____g melting *n.* a large piece of ice floating in the sea, detached from a glacier

ANSWERS: 48. weigh, 49. atom, 50. beam, 51. supple, 52. iceberg, 53. stick, 54. lens, 55. iceberg

56. sub_____on equation *n.* the process or action of removing one number from another; the mathematical operation of finding the difference between two numbers or quantities
57. without impact wha_____er *adv.* not at all; no matter what
58. sequencing of the human ge____e *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
59. 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
60. b__p against a wall *v.* to hit or knock against something hard, often with a dull sound; to meet with by accident
61. 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
62. re_____e a prisoner *v.* to set free or allow to escape from confinement
63. crack of d__n *n.* the time of day when the sun's light starts to show in the sky
64. fl_____le schedules *adj.* able to change or be changed to suit new conditions or situations; able to bend easily
65. low con_____ity *n.* the quality of a material's ability to conduct electricity, heat, etc.

ANSWERS: 56. subtraction, 57. whatsoever, 58. genome, 59. planet, 60. bump, 61. develop, 62. release, 63. dawn, 64. flexible, 65. conductivity

66. re_____e a phone *v.* to take the place of something
67. pho_____ph album *n.* a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film
68. r__y on convenience stores *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
69. things at the na_____le *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
70. bl___h stains *v.* to remove color or stains, whiten, or sterilize using a solution of chemicals or other substances, such as bleach
71. water des_____ion *n.* the process of removing salt, especially from seawater
72. a bl__t of wind *n.* explosion, or a strong current of air, usually caused by an explosion; a sudden, thunderous noise
73. half a gi_____n of CO2 *n.* a unit of explosive energy equal to one billion tons of TNT (= a powerful, yellow explosive substance); one billion tons
74. an infinite de_____l *adj.* based on or counted in the number 10
75. ar_____ly the greatest discovery *adv.* used when expressing an opinion or idea that you believe can be proven true
76. a dry ba_____y *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them

ANSWERS: 66. replace, 67. photograph, 68. rely, 69. nanoscale, 70. bleach, 71. desalination, 72. blast, 73. gigaton, 74. decimal, 75. arguably, 76. battery

77. in_____ed radiation *adj.* relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control
78. re_____e one word with another *v.* to take the place of something
79. rem_____le achievement *adj.* worthy of attention because unusual or special
80. chemical re_____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
81. na_____be technology *n.* a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
82. af__x a seal to a document *v.* to attach or add something to something else
83. tre_____us amount *adj.* very great in degree or extent or amount or impact; extremely good
84. ch_____y available *adv.* in a stingy or inexpensive manner
85. m__e acquaintance *adj.* used to emphasize how insignificant or minor someone or something is
86. electromagnetic ra_____on *n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health

ANSWERS: 77. infrared, 78. replace, 79. remarkable, 80. reaction, 81. nanotube, 82. affix, 83. tremendous, 84. cheaply, 85. mere, 86. radiation

87. b__p up prices *v.* to hit or knock against something hard, often with a dull sound; to meet with by accident
88. lack of cl____y *n.* the quality of being coherent and understandable; the quality of transparency or purity
89. com_____on number *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
90. n__m of action *n.* something that is regarded as usual, typical, or standard
91. poetic me__r *n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse
92. ge___e analyses *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
93. the per_____ve of the battle *n.* a confident attitude toward something; a particular style of thinking about something
94. col_____ve ownership *adj.* done or shared by every member of a group of people
95. air co____or *n.* a hallway or passageway, especially one connecting rooms or areas within a building or structure
96. decision-making pr____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 87. bump, 88. clarity, 89. combination, 90. norm, 91. meter, 92. genome, 93. perspective, 94. collective, 95. corridor, 96. process

97. wo_____ss coin *adj.* having no value or usefulness; not worth considering
98. 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
99. art_____al environment *adj.* not natural and made by human beings; not real but produced to resemble something
100. a weak pu__e *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
101. co_____e chemically with another substance *v.* to join or merge to form a single thing or group
102. metallic na_____be *n.* a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
103. p__p blood throughout the body *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
104. right to col_____ve bargaining *adj.* done or shared by every member of a group of people

ANSWERS: 97. worthless, 98. discovery, 99. artificial, 100. pulse, 101. combine, 102. nanotube, 103. pump, 104. collective

105. r__l down his cheeks *v.* to move in a particular direction by turning over and over or from side to side
106. co_____t base 10 to base 16 *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
107. flow of el_____ons *n.* a tiny particle with the negative electrical charge
108. the DNA se_____ce *n.* a series of related events, actions, numbers, etc., which have a particular order
109. pu__e waves *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
110. develop software more eff_____ly *adv.* in a way that produces maximum output with minimum effort or expense
111. 3D di_____m *n.* a simplified illustration of the appearance, structure, or workings of something
112. inc_____le amount *adj.* unbelievable; enormous
113. wo_____ss stock *adj.* having no value or usefulness; not worth considering
114. ext_____ary ability *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
115. tre_____us popularity *adj.* very great in degree or extent or amount or impact; extremely good
116. at inc_____le speed *adj.* unbelievable; enormous

ANSWERS: 105. roll, 106. convert, 107. electron, 108. sequence, 109. pulse, 110. efficiently, 111. diagram, 112. incredible, 113. worthless, 114. extraordinary, 115. tremendous, 116. incredible

117. we__h heavily on stock prices *v.* to have a particular weight; to carefully evaluate things before making a conclusion
118. electrical con_____ity *n.* the quality of a material's ability to conduct electricity, heat, etc.
119. br_____nt idea *adj.* extremely clever, skilled, or impressive
120. chi_____re netting *n.* (also known as "poultry netting") a type of woven wire mesh made of thin galvanized steel or other materials, typically used in construction, fencing, or as a protective barrier
121. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
122. the rem_____le breadth of knowledge *adj.* worthy of attention because unusual or special
123. walk along a co_____or *n.* a hallway or passageway, especially one connecting rooms or areas within a building or structure
124. sake of cl_____y *n.* the quality of being coherent and understandable; the quality of transparency or purity
125. four ba_____nt floor *n.* a room or a part of a building that is partly or entirely below ground level
126. th___t for authority *n.* a feeling of needing something to drink; a strong desire for something
127. manually op_____e a machine *v.* to work in a particular way; to supervise something
128. a wire g__d *n.* a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region

ANSWERS: 117. weigh, 118. conductivity, 119. brilliant, 120. chickenwire, 121. lab, 122. remarkable, 123. corridor, 124. clarity, 125. basement, 126. thirst, 127. operate, 128. grid

129. lack of tra_____ncy *n.* the condition or quality of being easy to see through
130. 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
131. a fl_____le wire *adj.* able to change or be changed to suit new conditions or situations; able to bend easily
132. a man of ex_____te sensitivity *adj.* extremely beautiful and delicate
133. p__p a secret out of success *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
134. genic com_____ons *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
135. alcohol va__r *n.* a mass of tiny liquid drops in the air
136. de_____l system *adj.* based on or counted in the number 10
137. complete no_____ly *adv.* usually; under normal conditions
138. a convex l__s *n.* a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation

ANSWERS: 129. transparency, 130. efficient, 131. flexible, 132. exquisite, 133. pump, 134. combination, 135. vapor, 136. decimal, 137. normally, 138. lens

139. ext_____ary weather *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
140. 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
141. fl__ker candle *v.* to make a sudden sharp movement or hit something quickly with a sharp movement
142. ba____y charging *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
143. coal fa___e *n.* a severe shortage of food, often caused by drought, war, or economic reasons
144. opp_____on campaign *n.* the act of disagreeing or resisting; the state of strong disagreement
145. plastic d__l *n.* a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive
146. co_____se the text *v.* to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated
147. a ma__c spell *n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers

ANSWERS: 139. extraordinary, 140. develop, 141. flick, 142. battery, 143. famine, 144. opposition, 145. doll, 146. condense, 147. magic

148. re____e CO2 into the air *v.* to set free or allow to escape from confinement
149. am____g advances *adj.* extremely surprising, especially in a way that you like or admire
150. ca____n dioxide *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
151. en____ng infrastructure *adj.* providing the means, support, or resources necessary for something to happen or be achieved; allowing or encouraging a particular behavior or activity
152. even more unf____ely *adv.* by bad luck; unluckily
153. co____se water vapor *v.* to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated
154. buy stock ch____y *adv.* in a stingy or inexpensive manner
155. 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
156. the wan light of d__n *n.* the time of day when the sun's light starts to show in the sky
157. ge____te more electricity *v.* to produce or create something; to make offspring by reproduction
158. b__m of light *n.* a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source

ANSWERS: 148. release, 149. amazing, 150. carbon, 151. enabling, 152. unfortunately, 153. condense, 154. cheaply, 155. atom, 156. dawn, 157. generate, 158. beam

159. she is ma__c *n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers
160. 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
161. ad_____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
162. not no_____ly drink much *adv.* usually; under normal conditions
163. fire st__k *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
164. a burning th____t *n.* a feeling of needing something to drink; a strong desire for something
165. su___e leather *adj.* flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
166. tra_____nt crystal *adj.* easy to perceive, detect, or understand; (of a material or article) permitting light to pass through freely
167. water va__r in the atmosphere *n.* a mass of tiny liquid drops in the air
168. mighty d_n *n.* a loud, confused noise; a loud, persistent racket

ANSWERS: 159. magic, 160. efficient, 161. addition, 162. normally, 163. stick, 164. thirst, 165. supple, 166. transparent, 167. vapor, 168. din

169. na_____le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
170. rag d__l *n.* a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive
171. co_____t fat into energy *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
172. gr_____te pencil *n.* a soft, black, lustrous form of carbon that is conductive and used as a lubricant and in pencils and electrodes in electrical devices
173. vanilla es_____e *n.* the basic or most important part or quality of something that makes it what it is
174. co_____e augmented reality *v.* to join or merge to form a single thing or group
175. bl____h hair *v.* to remove color or stains, whiten, or sterilize using a solution of chemicals or other substances, such as bleach
176. ca____n emission *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
177. de____t a bad event *v.* to find or recognize something, especially something difficult to see, hear, etc.
178. beam of el_____ons *n.* a tiny particle with the negative electrical charge

ANSWERS: 169. nanoscale, 170. doll, 171. convert, 172. graphite, 173. essence, 174. combine, 175. bleach, 176. carbon, 177. detect, 178. electron

179. an in_____ed lamp *adj.* relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control
180. su_____ly attacked by an enemy *adv.* quickly and unexpectedly
181. hu_____g bird *adj.* producing a continuous, low, vibrating sound like that of the bee
182. crossword pu_____e *n.* a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand
183. ex_____te crafts *adj.* extremely beautiful and delicate
184. biological po_____r *n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules
185. an icy bl__t *n.* explosion, or a strong current of air, usually caused by an explosion; a sudden, thunderous noise
186. 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
187. universal es_____e *n.* the basic or most important part or quality of something that makes it what it is

ANSWERS: 179. infrared, 180. suddenly, 181. humming, 182. puzzle, 183. exquisite, 184. polymer, 185. blast, 186. discovery, 187. essence

188. get inc_____ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
189. eff_____ly combined *adv.* in a way that produces maximum output with minimum effort or expense
190. church ba_____nt *n.* a room or a part of a building that is partly or entirely below ground level
191. fa___e relief *n.* a severe shortage of food, often caused by drought, war, or economic reasons
192. meet with opp_____on *n.* the act of disagreeing or resisting; the state of strong disagreement
193. a tra_____nt lie *adj.* easy to perceive, detect, or understand; (of a material or article) permitting light to pass through freely
194. 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
195. m___e incident *adj.* used to emphasize how insignificant or minor someone or something is
196. shut down a des_____ion plant *n.* the process of removing salt, especially from seawater
197. wav_____th of light *n.* the distance between two points in the same phase in consecutive cycles of a wave
198. a g___d design *n.* a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region
199. v___t meter *n.* a unit of measurement for electrical potential difference or electromotive force, equal to the force required to move one ampere of electric charge through one ohm of resistance

ANSWERS: 188. incredibly, 189. efficiently, 190. basement, 191. famine, 192. opposition, 193. transparent, 194. planet, 195. mere, 196. desalination, 197. wavelength, 198. grid, 199. volt

200. double-digit sub_____on *n.* the process or action of removing one number from another; the mathematical operation of finding the difference between two numbers or quantities
201. r__l a ball *v.* to move in a particular direction by turning over and over or from side to side
202. die su_____ly *adv.* quickly and unexpectedly

ANSWERS: 200. subtraction, 201. roll, 202. suddenly

Session 3: Fill in the Blanks

1. The focus of these initiatives is to make the financial system more _____.
adj. easy to perceive, detect, or understand; (of a material or article) permitting light to pass through freely
2. I need to _____ all of my notes into a manageable summary for my presentation.
v. to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated
3. The _____ for applying for a visa can be lengthy and complicated.
n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
4. The _____ to the safe was a secret.
n. a collection of things that have been combined; an assemblage of separate parts or qualities
5. 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
6. He was exhausted and _____ into bed as soon as he got home.
v. to move in a particular direction by turning over and over or from side to side
7. The animal rights group worked to _____ the dolphins back into the wild.
v. to set free or allow to escape from confinement

ANSWERS: 1. transparent, 2. condense, 3. process, 4. combination, 5. atom, 6. rolled, 7. release

8. The ballerina's _____ movements left the audience mesmerized.
adj. flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
9. High thermal _____ is also essential for the exterior of the machine.
n. the quality of a material's ability to conduct electricity, heat, etc.
10. He narrated the _____ story of his adventure.
adj. exceptional, unexpected, very unusual; surpassing the ordinary or usual
11. He was alert and could not _____ any critical information out of him.
v. to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
12. I need to _____ this shirt to remove the stains.
v. to remove color or stains, whiten, or sterilize using a solution of chemicals or other substances, such as bleach
13. This jigsaw _____ is challenging because there are no pictures.
n. a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand
14. The _____ shattered the laboratory equipment.
n. explosion, or a strong current of air, usually caused by an explosion; a sudden, thunderous noise
15. The election was a _____ success for the Whigs.
adj. worthy of attention because unusual or special

ANSWERS: 8. supple, 9. conductivity, 10. extraordinary, 11. pump, 12. bleach, 13. puzzle, 14. blast, 15. remarkable

16. The cardiac monitor displays the intensity of your _____.
- n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
17. His father's death changed his whole _____ on life.
- n.* a confident attitude toward something; a particular style of thinking about something
18. One light year is nearly 6 _____ miles.
- n.* the number 1,000,000,000,000; a million million
19. The _____ of expenses from revenue resulted in a net profit for the company.
- n.* the process or action of removing one number from another; the mathematical operation of finding the difference between two numbers or quantities
20. He worked on improving the equipment using the freeze-_____ method.
- n.* the process of removing salt, especially from seawater
21. There was a chemical _____ of the lime with the groundwater.
- n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
22. The economic stimulation program would _____ a lot of new jobs.
- v.* to produce or create something; to make offspring by reproduction
23. We had a _____ time yesterday.
- adj.* very great in degree or extent or amount or impact; extremely good

ANSWERS: 16. pulse, 17. perspective, 18. trillion, 19. subtraction, 20. desalination, 21. reaction, 22. generate, 23. tremendous

24. The _____ of the bees filled the air as she walked through the garden.

adj. producing a continuous, low, vibrating sound like that of the bee

25. You can live very _____ in Southeast Asia.

adv. in a stingy or inexpensive manner

26. The long _____ was filled with people rushing to get to their rooms before the meeting began.

n. a hallway or passageway, especially one connecting rooms or areas within a building or structure

27. He lost the election by _____ votes.

adj. used to emphasize how insignificant or minor someone or something is

28. He refused to do anything _____ to help her.

adv. not at all; no matter what

29. The publisher will proofread most of this manuscript for _____.

n. the quality of being coherent and understandable; the quality of transparency or purity

30. He _____ the light switch, and the room was illuminated.

v. to make a sudden sharp movement or hit something quickly with a sharp movement

31. 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

ANSWERS: 24. humming, 25. cheaply, 26. corridor, 27. mere, 28. whatsoever, 29. clarity, 30. flicked, 31. planet

32. The severe _____ caused by the drought has left many people without food.
n. a severe shortage of food, often caused by drought, war, or economic reasons
33. The golfer recorded an _____ distance.
adj. extremely surprising, especially in a way that you like or admire
34. White color is made up of many different _____ of light.
n. the distance between two points in the same phase in consecutive cycles of a wave
35. Clouds form when water _____ rises to the upper atmosphere.
n. a mass of tiny liquid drops in the air
36. Babies heavily _____ on others for food.
v. to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
37. The chicken coop was built using sturdy _____ to keep the chickens safe.
n. (also known as "poultry netting") a type of woven wire mesh made of thin galvanized steel or other materials, typically used in construction, fencing, or as a protective barrier
38. The _____ camera revealed a hidden image on the surface.
adj. relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control
39. Underground rivers flow over a _____ layer that is impervious to water.
n. a room or a part of a building that is partly or entirely below ground level

ANSWERS: 32. famine, 33. amazing, 34. wavelengths, 35. vapor, 36. rely, 37. chickenwire, 38. infrared, 39. basement

40. The _____ intelligence system has revolutionized the way we live and work.

adj. not natural and made by human beings; not real but produced to resemble something

41. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.

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

42. We do move forward with those tasks in _____ next week.

n. a series of related events, actions, numbers, etc., which have a particular order

43. The baby _____ 1 pound 3 oz.

v. to have a particular weight; to carefully evaluate things before making a conclusion

44. Hydrogen and oxygen _____ to form water.

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

45. The fire spread rapidly, engulfing everything in its path in a _____ inferno.

adj. intense or scorching heat

46. The _____ on the wall showed that the room was three meters long.

n. a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse

47. The outermost _____ shell determines the chemical properties of an atom.

n. a tiny particle with the negative electrical charge

48. Her response revealed _____ idiocy.

adj. unbelievable; enormous

ANSWERS: 40. artificial, 41. lab, 42. sequence, 43. weighs, 44. combine, 45. burning, 46. meter, 47. electron, 48. incredible

49. We can resolve support requests quickly and _____ by utilization of AI.
adv. in a way that produces maximum output with minimum effort or expense
50. He is drawing a _____ illustrating how the equipment operates.
n. a simplified illustration of the appearance, structure, or workings of something
51. The sun's _____ shone through the window and illuminated the room.
n. a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source
52. The more _____ you are, the more people around you look at you with envy and jealousy.
adj. extremely clever, skilled, or impressive
53. We are developing plant-derived _____ to reduce environmental impact.
n. a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules
54. The _____ in the brake pads helps to reduce friction during braking.
n. a soft, black, lustrous form of carbon that is conductive and used as a lubricant and in pencils and electrodes in electrical devices
55. The main discussion topic is government _____.
n. the condition or quality of being easy to see through
56. University teaches the art of understanding the _____ of the matter.
n. the basic or most important part or quality of something that makes it what it is
57. The engine did not start because the _____ was flat.
n. a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them

ANSWERS: 49. efficiently, 50. diagram, 51. beam, 52. brilliant, 53. polymers, 54. graphite, 55. transparency, 56. essence, 57. battery

58. I found an old _____ of my grandparents from their wedding day.
- n.* a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film
59. We can hear an _____ piano melody from his room.
- adj.* extremely beautiful and delicate
60. The earthquake that hit the Pacific Ocean last night is said to have released about 30 _____ of energy.
- n.* a unit of explosive energy equal to one billion tons of TNT (= a powerful, yellow explosive substance); one billion tons
61. He made the old _____ coins shine.
- n.* a chemical element that is a soft, malleable, and ductile metal with very high thermal and electrical conductivity
62. I want to _____ my sadness into strength.
- v.* to have a talk with someone; (adjective) reversed in order, relation, or action
63. I don't _____ take a vacation in the middle of summer.
- adv.* usually; under normal conditions
64. Several cities are experiencing _____ high unemployment rates.
- adv.* in a way that is very difficult to believe; exceedingly or extremely
65. You _____ a bill in the change machine, and the coins pop out.
- v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

ANSWERS: 58. photograph, 59. exquisite, 60. gigatons, 61. copper, 62. convert, 63. normally, 64. incredibly, 65. stick

66. He is _____ regarded as the finest actor of his generation.

adv. used when expressing an opinion or idea that you believe can be proven true

67. He tried every possible treatment, including chemotherapy and _____ therapy.

n. the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health

68. The battery has a low _____ output, insufficient to power the device.

n. a unit of measurement for electrical potential difference or electromotive force, equal to the force required to move one ampere of electric charge through one ohm of resistance

69. She accidentally _____ into him in the crowded room.

v. to hit or knock against something hard, often with a dull sound; to meet with by accident

70. He read books to quench his _____ for knowledge.

n. a feeling of needing something to drink; a strong desire for something

71. 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

72. Trees absorb _____ dioxide and give off oxygen.

n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

73. 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

ANSWERS: 66. arguably, 67. radiation, 68. volt, 69. bumped, 70. thirst, 71. transmit, 72. carbon, 73. magic

74. The _____ party strongly disagreed with the government's proposed legislation.

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

75. The _____ point separates the whole number from the fractional part.

adj. based on or counted in the number 10

76. Eventually, the new design will _____ all older models.

v. to take the place of something

77. 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

78. The photographer took this photo using a telephoto _____.

n. a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation

79. This machine is too difficult to _____ for me.

v. to work in a particular way; to supervise something

80. During pregnancy, the stomach generates less _____ than usual.

n. sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials

ANSWERS: 74. opposition, 75. decimal, 76. replace, 77. develop, 78. lens, 79. operate, 80. acid

81. Carbon _____ are used in various fields of science and technology due to their unique properties.
- n.* a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
82. She _____ a stamp to the letter before mailing it.
- v.* to attach or add something to something else
83. The product was found to be _____ as it failed to meet the customer's expectations.
- adj.* having no value or usefulness; not worth considering
84. The security camera has _____ four intruders.
- v.* to find or recognize something, especially something difficult to see, hear, etc.
85. The systems we have developed has accepted as industry _____.
- n.* something that is regarded as usual, typical, or standard
86. In _____ private corporations provide healthcare services.
- n.* the act or process of adding something to something else; the process of adding numbers
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. _____ pattern roads often appear in urban areas.
- n.* a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region

ANSWERS: 81. nanotubes, 82. affixed, 83. worthless, 84. detected, 85. norms, 86. addition, 87. efficient, 88. Grid

89. The human _____ contains approximately three billion chemical base pairs.
n. the complete set or sequence of genes of a human, animal, plant, or other living things
90. This process improves the strength of the metal by controlling the _____ lattice structure of the metal.
adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
91. Who answers _____ knows little.
adv. quickly and unexpectedly
92. The treatments were done but, _____ were unsuccessful.
adv. by bad luck; unluckily
93. The ship encountered a series of _____ and had to change its course.
n. a large piece of ice floating in the sea, detached from a glacier
94. _____ technologies allows people with disabilities to lead more independent lives.
adj. providing the means, support, or resources necessary for something to happen or be achieved; allowing or encouraging a particular behavior or activity
95. The ____ of the city was overwhelming.
n. a loud, confused noise; a loud, persistent racket
96. You can be more _____ and creative in your approach.
adj. able to change or be changed to suit new conditions or situations; able to bend easily

ANSWERS: 89. genome, 90. nanoscale, 91. suddenly, 92. unfortunately, 93. icebergs, 94. Enabling, 95. din, 96. flexible

97. Product development is a _____ effort.

adj. done or shared by every member of a group of people

98. 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

99. The antique _____ was worth thousands of dollars.

n. a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive

100. Missile assaults on the capital continued around _____.

n. the time of day when the sun's light starts to show in the sky

101. I like to _____ with a good book after a long day at work.

v. to relax and release tension, often by engaging in leisure activities or by simply resting; to reverse the winding or twisting of something

ANSWERS: 97. collective, 98. discovery, 99. doll, 100. dawn, 101. unwind