

# Englist.me



## Vocabulary Builder Reference from...

*Kanawat Senanan: How do hard drives work? | TED Talk*

[https://www.ted.com/talks/kanawat\\_senanan\\_how\\_do\\_hard\\_drives\\_work](https://www.ted.com/talks/kanawat_senanan_how_do_hard_drives_work)

### All Words

#### IMPORTANT

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## Session 1: Word List

### blade

*n.* the flat part of a knife, weapon, or machine with a very thin edge used for cutting

*synonym* : knife, sword, cutter

(1) a **blade** of grass, (2) the **blade** of a turbine

The **blade** of the katana itself is still in excellent condition.

### shrink

*v.* to become smaller, or to make something smaller in size or amount

*synonym* : decrease, diminish, shy away

(1) **shrink** the tumor, (2) **shrink** with fear

This shirt will **shrink** in the wash.

### palm

*n.* the inner surface of the hand from the wrist to the base of the fingers; any plant of the family *Palmae* having an unbranched trunk crowned by large pinnate or palmate leaves

*synonym* : hand, fist

(1) the **palm** side of the forearm, (2) coconut **palm** trees

This high-performance camera is compact enough to fit in the **palm** of your hand.

### equivalent

*n.* having the same value, quality, meaning, purpose, etc.

*synonym* : equal, counterpart, match

(1) **equivalent** amounts, (2) **equivalent** in meaning  
The European Central Bank is Europe's **equivalent** of the Federal Reserve.

## modern

*adj.* of or belonging to the present time or recent times  
*synonym*: contemporary, stylish, current

(1) **modern** poetry, (2) pre- **modern** agricultural society  
Their headquarters are in a **modern** skyscraper.

## stack

*n.* a pile of something arranged or laid one on top of another; a large tall chimney through which combustion gases and smoke can be evacuated

*synonym*: accumulation, heap, pile

(1) high **stack**, (2) a large **stack** of paper

The earthquake caused a **stack** of lumber to crumble noisily.

## spinning

*n.* the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn

*synonym*: whirling, rotating, spinning wheel

(1) **spinning** machine, (2) **spinning** wheel

She took a **spinning** class at the gym to improve her cardiovascular fitness.

## disk

*n.* a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music

*synonym*: record, platter, plate

(1) **disk** drive, (2) **disk** space

The computer's hard **disk** was full, so she had to delete some files.

## microscopic

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

*synonym*: infinitesimal, tiny, atomic

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

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

hull.

## magnet

*n.* an object or substance that can attract certain materials, such as iron or steel

*synonym*: magnetite, lodestone, attracting substance

(1) **magnet** attraction, (2) permanent **magnet**

The MRI machine uses **magnets** to produce images of the body's internal organs.

## metal

*n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes

*synonym*: alloy, metalloid

(1) **metal** fabrication, (2) precious **metal**

The construction worker used a **metal** saw to cut through the stubborn sheet metal.

## grain

*n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance

*synonym*: seed, piece, cereal

(1) a **grain** of sand, (2) flour made from **grain**

Ordinary air purifiers cannot adequately remove pollen **grains**.

## recognize

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

*synonym*: acknowledge, identify, admit

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

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

## magnetic

*adj.* having the properties of attracting or repelling certain materials containing iron or steel

*synonym*: attractive, drawing, hypnotic

(1) **magnetic** field, (2) a **magnetic** tape

The **magnetic** force of the earth keeps our planet spinning.

## magnetize

v. to attract or draw someone or something towards oneself, often metaphorically; to make something magnetic

*synonym*: attract, captivate, charm

(1) **magnetize** a metal object, (2) **magnetize** a large number of potential buyers

The new advertising campaign aims to **magnetize** a younger audience.

## align

v. to put or arrange two or more things in a straight line or to form a straight line

*synonym*: coordinate, regulate, adjust

(1) **align** the economic interest of each other, (2) **align** with a historical trend

Both parties are now entirely ideologically **aligned**.

## statistics

n. the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data

(1) **statistics** for cancer, (2) official **statistics**

The **statistics** demonstrate that poverty and unemployment are genuine problems.

## correspond

v. to match or be similar to something else almost exactly; to exchange messages

*synonym*: match, equate, communicate

(1) **correspond** to a standard, (2) **correspond** with a foreign student

The numbers on the sign **correspond** to points on the map.

## 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.

## string

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

*synonym* : line, wire, rope

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

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

## electrical

*adj.* relating to electricity

(1) an **electrical** storm, (2) degree in **electrical** engineering

Actuators convert **electrical** pulses into motion.

## electromagnetic

*adj.* of or relating to the magnetism produced by electric charge in motion

(1) **electromagnetic** radiation, (2) **electromagnetic** properties

His hypothesis concerns the role of an **electromagnetic** field in human health.

## 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.

## phonograph

*n.* an early sound-reproducing machine that plays audio recordings, typically in the form of cylindrical or disc-shaped records; often referred to as an early version of the record player or gramophone

*synonym* : gramophone, record player, vinyl player

(1) antique **phonograph**, (2) portable **phonograph**

My grandparents used to listen to their favorite songs on the vinyl **phonograph**.

## needle

*n.* a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood

*synonym* : thorn, spike, pin

(1) **needle** prick, (2) sewing **needle**

The acupuncturist inserted **needles** into specific points on my body to alleviate my pain.

## translate

v. to convert or change words into another language

*synonym* : convert, transcribe, render

(1) **translate** a document into English, (2) **translate** the emotion to a movement

**Translate** the text from Italian into English.

## groove

n. a long, narrow cut or depression in a hard material or surface; a particular style of popular music characterized by a strong and repetitive rhythm

*synonym* : rut, channel, furrow

(1) **groove** on the dance floor, (2) get into the **groove**

The band played a smooth **groove** that got everyone dancing.

## represent

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

*synonym* : depict, express, describe

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

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

## byte

n. a unit of digital information that consists of 8 bits, typically used to represent a single character of text or a small amount of computer code

(1) **byte** code, (2) **byte** array

The computer hard drive had plenty of storage space but was running low on available **bytes**.

## density

n. the quality of compactness of a substance

*synonym* : tightness, viscosity

(1) population **density**, (2) higher pixel **density**

Do you know the **density** of the population in Hong Kong?

## squeeze

*v.* to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness

*synonym*: compress, crush, clamp

(1) **squeeze** a lemon, (2) **squeeze** a confession

She **squeezed** the toothpaste tube from the middle to get the last bit out.

## 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.

## advance

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

*synonym*: progress, boost, come along

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

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

## storage

*n.* the act or process of putting in and keeping something in a particular place for use in the future; an electronic memory device that can store information

*synonym*: storehouse, depository, warehousing

(1) a **storage** battery, (2) **storage** at low temperature

We store customer data in cloud **storage**.

## involve

*v.* to include or affect someone or something as a necessary part of something else

*synonym*: implicate, include, engage

(1) **involve** a lot of paperwork, (2) **involve** a high degree of risk

The investigation **involves** several government agencies and is expected to take several months.

## innovation

*n.* the creation of a new device or process resulting from study and experimentation

*synonym* : invention, initiation, creation

(1) **innovation** leader, (2) cutting-edge **innovation**

The vegetarian burger was an **innovation** that quickly spread to the United Kingdom.

## technique

*n.* a particular way or art of doing something that needs skill

*synonym* : approach, procedure, strategy

(1) a **technique** in martial arts, (2) the **technique** applied to construction

Jockey's superior **technique** brought him victory.

## lithograph

*n.* a printmaking process that involves creating a design on a flat stone or metal plate, transferring the design to paper using ink, and then printing multiple copies of the design

*synonym* : print, etching, engraving

(1) **lithograph** print, (2) limited edition **lithograph**

The art gallery showcased a collection of colorful **lithographic** prints by renowned artists.

## 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.



## engineer

*n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software

*synonym* : architect, creator, builder

(1) a civil **engineer**, (2) **engineer** shortage

The **engineer** will repair my telephone tomorrow morning.

## sensitive

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

*synonym* : exposed, susceptible, keen

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

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

## advantage

*n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has

*synonym* : benefit, edge, asset

(1) score an **advantage**, (2) take **advantage** of his weak points

One of the main **advantages** of the new product is its increased efficiency.

## 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**.

## 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.

## packed

*adj.* extremely full of people; very crowded

*synonym* : jammed, crowded, consolidated

(1) **packed** audience, (2) a romance- **packed** movie

The drama is fascinating and action- **packed**.

## mathematics

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

*synonym* : arithmetic, calculation, calculus

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

He has a flair for **mathematics**.

## algorithm

*n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

*synonym* : logic, method, rule

(1) the RSA **algorithm**, (2) **algorithm** for image processing

We can evaluate the performance of an **algorithm** in terms of computation time.

## filter

*n.* any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light

*synonym* : strainer

(1) gas **filter**, (2) clogged **filter**

Ozone is a primary **filter** to protect Earth's surface from harmful UV rays.

## interference

*n.* the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with

*synonym* : obstruction, hindrance, impedance

(1) officious **interference**, (2) **interference** wave

Unfortunately, the radio **interference** made it difficult to hear the broadcast.

## 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.

## chunk

*n.* a thick and solid mass or piece of something

*synonym* : block, lump, piece

(1) a **chunk** of money, (2) a tiny **chunk** of meat

The new start-up company carved out a large **chunk** of the market within a year.

## thermal

*adj.* relating to heat or temperature; designed for or capable of producing or maintaining heat

*synonym* : heat-related, warm, hot

(1) **thermal** insulation, (2) **thermal** energy

The **thermal** imaging camera was used to detect heat signatures in the dark.

## expansion

*n.* the process of becoming larger or more extensive, or the result of this process

*synonym* : growth, enlargement, development

(1) industrial **expansion**, (2) **expansion** project

The company is undergoing an **expansion**, opening new locations in several states.

## 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.

## strand

*n.* a very thin natural or synthetic thread, wire, hair, etc.;  
(verb) to leave or drive a vessel, fish, etc., aground or ashore

*synonym* : fiber, filament, string

(1) a **strand** of fine hair, (2) double- **strand** DNA

I heard several melodic **strands** simultaneously.

## exponential

*adj.* becoming more and more rapid; of or involving mathematical exponents

(1) **exponential** growth, (2) **exponential** function

Since the 1990s, the Internet has continued to experience **exponential** growth.

## predict

*v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience

*synonym* : forecast, anticipate, foresee

(1) **predict** the future, (2) **predict** when she will arrive

It's notoriously challenging to **predict** birth rates.

## cram

*v.* to force or try to fit a large amount of information into a short time, especially in preparation for an examination; to force or try to fit a large amount of something into a small space

*synonym* : stuff, pack, jam

(1) **cram** more circuits into chips, (2) **cram** five people into a car

She had to **cram** for the final exam and stayed up all night studying.

## pose

*v.* to present a risk, problem, or other issues that must be addressed

*synonym* : present, put, position

(1) **pose** a significant threat to my company, (2) **pose** a challenge

The chemicals **pose** a massive health risk.

## conciierge

*n.* an employee or staff member, often found in hotels or residential buildings, who assists guests or residents with various services, such as making reservations, providing information or recommendations, arranging transportation, or handling special requests

*synonym* : caretaker, attendant, hotelier

(1) **conciierge** desk, (2) personal **conciierge**

The **conciierge** at the hotel was able to provide excellent recommendations for local restaurants.

## volume

*n.* the amount of space occupied by an object or substance; the magnitude of sound

*synonym*: capacity, amount, intensity

(1) **volume** of work, (2) high **volume**

This container has a **volume** of 10 cubic meters.

## disturb

*v.* to interrupt someone who is trying to work, sleep, etc.

*synonym*: agitate, bother, intrude

(1) **disturb** the peace, (2) **disturb** his sleep

Tourists frequently **disturb** the island's delicate natural balance.

## unintentional

*adj.* not done or made on purpose; accidental

*synonym*: accidental, unforeseen, spontaneous

(1) avoid **unintentional** harm, (2) **unintentional** insult

The mistake was **unintentional** and made in good faith.

## resolve

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

*synonym*: decide, determine, fix

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

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

## limitation

*n.* a rule or act that restricts the scope of something

*synonym*: restriction, constraint, burden

(1) impose **limitation**, (2) **limitation** of exercise

Disability is a physical **limitation** to living everyday life.

## 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.

## longitudinal

*adj.* relating to or measuring along the length of an object or course or longitude (= the angular distance between a point on any meridian and the prime meridian at Greenwich); running downwards rather than across

*synonym* : axial, lengthwise

(1) **longitudinal** axes, (2) **longitudinal** data

The researchers conducted a **longitudinal** study on the effects of the new medication.

## perpendicular

*adj.* forming, situated at, or being at a right angle to a given line or plane; upright or vertical; at right angles to the horizon

*synonym* : vertical, upright, standing

(1) **perpendicular** angles, (2) **perpendicular** walls

The two lines were perfectly **perpendicular** to each other.

## recreation

*n.* the activity that renews your health and spirits by enjoyment and relaxation; the act or process of making something that existed in the past exists or seems to exist again in a different time or place

*synonym* : amusement, entertainment, refreshment

(1) outdoor **recreation**, (2) **recreation** of the homeland

Basketball is their usual **recreation** after school.

## assist

*v.* to help someone in doing anything

*synonym* : help, support, aid

(1) **assist** a patient, (2) **assist** his goal

Please **assist** her with the furniture relocation.

## stable

*adj.* firm and steady; not easily moved, disturbed, or changed

*synonym* : sturdy, unmoving, durable

(1) in **stable** condition, (2) have a **stable** job

Relations between the two countries have been relatively **stable** due to the summit meeting.

## medium

*adj.* of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information

*synonym* : average, intermediate, (noun) channel

(1) **medium** color, (2) an advertising **medium**

The **medium** size shirt fits him perfectly.

## resistance

*n.* the act of defending oneself from an aggressor or refusing to accept something

*synonym* : opposition, antagonism, defiance

(1) **resistance** movement, (2) **resistance** to insulin

The bill to increase the consumption tax had passed despite much **resistance** from the public.

## momentary

*adj.* lasting for only a brief moment or an extremely short period of time; occurring momentarily

*synonym* : fleeting, temporary, brief

(1) **momentary** pause, (2) **momentary** distraction

The **momentary** lapse in concentration caused her to miss the crucial shot.

## spot

*n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it

*synonym* : dot, mark, place

(1) beauty **spot**, (2) a **spot** on his honor

This remote **spot** is rarely visited.

## laser

*n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification

*synonym* : beam, bar, ray

(1) **laser** printer, (2) pulse **laser**

The company holds patents on core components of **laser** jet printers.

## prototype

*n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed

*synonym* : mock-up, precursor, model

(1) complete a **prototype** product, (2) early **prototype**

The flying car is presently in the **prototype** stage.

## sleeve

*n.* a part of a garment that covers all or part of an arm

*synonym* : arm covering, armband

(1) a wide **sleeve**, (2) **sleeve** length

He rolled up his **sleeves** to get ready to work.

## 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.

## arrange

*v.* to plan, prepare for, and carry out something

*synonym* : set up, order, organize

(1) **arrange** the meeting, (2) the list was **arranged** alphabetically

I need to **arrange** plans with him for the celebration.

## separate

*v.* to force, take, or pull apart; mark as different

*synonym* : disunite, isolate, ramify

(1) **separate** video into chapter, (2) **separate** cream from milk

We need to **separate** the aspect of his personality from the part of his competence when making an investment decision.

## structure

*n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

*synonym* : construction, architecture, establishment

(1) the **structure** of a machine, (2) **structure** and function of the brain

The organizational **structure** of start-ups is often flat and straightforward.



## potentially

*adv.* in a possible state or condition; possibly

*synonym* : likely, possibly, probably

(1) **potentially** affected, (2) **potentially** lucrative

The organization assisted in the de-escalation of **potentially** violent situations.

## 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.

## generation

*n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity

*synonym* : cohort, age group, era

(1) **generation** gap, (2) the **generation** of electricity

The younger **generation** has different values and beliefs than the older one.

## 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.

## incredible

*adj.* unbelievable; enormous

*synonym* : unbelievable, fantastical, inconceivable

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

Her response revealed **incredible** idiocy.

## precision

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

*synonym* : accuracy, exactness, rigor

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

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

## spin

*v.* to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented

*synonym* : rotate, twirl, swirl

(1) **spin** a top, (2) **spin** thread out of cotton

The tornado is **spinning** across the countryside, destroying everything in its path.

## Session 2: Spelling

1. an advertising me\_\_\_m  
*adj.* of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information
2. 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
3. ma\_\_\_\_\_ze a large number of potential buyers  
*v.* to attract or draw someone or something towards oneself, often metaphorically; to make something magnetic
4. cor\_\_\_\_\_nd with a foreign student  
*v.* to match or be similar to something else almost exactly; to exchange messages
5. a romance-pa\_\_\_d movie  
*adj.* extremely full of people; very crowded
6. a bl\_\_e of grass  
*n.* the flat part of a knife, weapon, or machine with a very thin edge used for cutting
7. gr\_\_\_e on the dance floor  
*n.* a long, narrow cut or depression in a hard material or surface; a particular style of popular music characterized by a strong and repetitive rhythm
8. baby with se\_\_\_\_\_ve skin  
*adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do

ANSWERS: 1. medium, 2. process, 3. magnetize, 4. correspond, 5. packed, 6. blade, 7. groove, 8. sensitive

9. int\_\_\_\_\_nce wave *n.* the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with
10. pa\_\_\_\_d audience *adj.* extremely full of people; very crowded
11. coconut p\_\_m trees *n.* the inner surface of the hand from the wrist to the base of the fingers; any plant of the family Palmae having an unbranched trunk crowned by large pinnate or palmate leaves
12. sh\_\_\_\_k the tumor *v.* to become smaller, or to make something smaller in size or amount
13. st\_\_\_\_\_re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
14. inc\_\_\_\_\_le amount *adj.* unbelievable; enormous
15. ad\_\_\_\_\_e a cooperative relationship *v.* to go or move forward; to develop in a positive way
16. al\_\_n with a historical trend *v.* to put or arrange two or more things in a straight line or to form a straight line
17. official sta\_\_\_\_\_cs *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
18. get into the gr\_\_\_\_e *n.* a long, narrow cut or depression in a hard material or surface; a particular style of popular music characterized by a strong and repetitive rhythm

ANSWERS: 9. interference, 10. packed, 11. palm, 12. shrink, 13. structure, 14. incredible, 15. advance, 16. align, 17. statistics, 18. groove

19. a ma\_\_\_\_ic tape *adj.* having the properties of attracting or repelling certain materials containing iron or steel
20. st\_\_\_\_e at low temperature *n.* the act or process of putting in and keeping something in a particular place for use in the future; an electronic memory device that can store information
21. ex\_\_\_\_on project *n.* the process of becoming larger or more extensive, or the result of this process
22. res\_\_\_\_ce movement *n.* the act of defending oneself from an aggressor or refusing to accept something
23. lon\_\_\_\_nal data *adj.* relating to or measuring along the length of an object or course or longitude (= the angular distance between a point on any meridian and the prime meridian at Greenwich); running downwards rather than across
24. in st\_\_\_e condition *adj.* firm and steady; not easily moved, disturbed, or changed
25. sq\_\_\_\_e a confession *v.* to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness
26. gas fi\_\_\_r *n.* any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light
27. mic\_\_\_\_ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy

ANSWERS: 19. magnetic, 20. storage, 21. expansion, 22. resistance, 23. longitudinal, 24. stable, 25. squeeze, 26. filter, 27. microscopic

28. se\_\_\_\_te video into chapter *v.* to force, take, or pull apart; mark as different
29. exp\_\_\_\_\_al growth *adj.* becoming more and more rapid; of or involving mathematical exponents
30. in\_\_\_\_\_e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
31. en\_\_\_\_\_er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
32. as\_\_\_\_t a patient *v.* to help someone in doing anything
33. mo\_\_\_\_n poetry *adj.* of or belonging to the present time or recent times
34. exp\_\_\_\_\_al function *adj.* becoming more and more rapid; of or involving mathematical exponents
35. ma\_\_\_\_t attraction *n.* an object or substance that can attract certain materials, such as iron or steel
36. s\_\_n a top *v.* to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
37. laws of qu\_\_\_\_\_m mechanics *n.* the smallest amount or unit of something, especially (electromagnetic) energy
38. double-st\_\_\_\_d DNA *n.* a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore
39. degree in ele\_\_\_\_\_al engineering *adj.* relating to electricity
40. rec\_\_\_\_\_on of the homeland *n.* the activity that renews your health and spirits by enjoyment and relaxation; the act or process of making something that existed in the past exists or seems to exist again in a different time or place

ANSWERS: 28. separate, 29. exponential, 30. involve, 31. engineer, 32. assist, 33. modern, 34. exponential, 35. magnet, 36. spin, 37. quantum, 38. strand, 39. electrical, 40. recreation

41. precious me\_\_l *n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes
42. a wide sl\_\_\_e *n.* a part of a garment that covers all or part of an arm
43. al\_\_\_\_\_hm for image processing *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
44. uni\_\_\_\_\_nal insult *adj.* not done or made on purpose; accidental
45. co\_\_\_\_\_ge desk *n.* an employee or staff member, often found in hotels or residential buildings, who assists guests or residents with various services, such as making reservations, providing information or recommendations, arranging transportation, or handling special requests
46. pot\_\_\_\_\_ly lucrative *adv.* in a possible state or condition; possibly
47. sp\_\_\_\_\_ng wheel *n.* the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn
48. me\_\_l fabrication *n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes

ANSWERS: 41. metal, 42. sleeve, 43. algorithm, 44. unintentional, 45. concierge, 46. potentially, 47. spinning, 48. metal

49. th\_\_\_\_l energy *adj.* relating to heat or temperature; designed for or capable of producing or maintaining heat
50. mat\_\_\_\_cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
51. a gr\_\_n of sand *n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
52. c\_\_m five people into a car *v.* to force or try to fit a large amount of information into a short time, especially in preparation for an examination; to force or try to fit a large amount of something into a small space
53. re\_\_\_\_ze talent *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
54. industrial ex\_\_\_\_on *n.* the process of becoming larger or more extensive, or the result of this process
55. score an ad\_\_\_\_ge *n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
56. d\_\_k drive *n.* a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music
57. a st\_\_\_\_e battery *n.* the act or process of putting in and keeping something in a particular place for use in the future; an electronic memory device that can store information

ANSWERS: 49. thermal, 50. mathematics, 51. grain, 52. cram, 53. recognize, 54. expansion, 55. advantage, 56. disk, 57. storage



58. at inc\_\_\_\_\_le speed *adj.* unbelievable; enormous
59. personal co\_\_\_\_\_ge *n.* an employee or staff member, often found in hotels or residential buildings, who assists guests or residents with various services, such as making reservations, providing information or recommendations, arranging transportation, or handling special requests
60. mic\_\_\_\_\_ic inquiry *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
61. co\_\_\_\_\_t fat into energy *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
62. impose lim\_\_\_\_\_on *n.* a rule or act that restricts the scope of something
63. a large st\_\_k of paper *n.* a pile of something arranged or laid one on top of another; a large tall chimney through which combustion gases and smoke can be evacuated
64. ge\_\_\_\_\_te more electricity *v.* to produce or create something; to make offspring by reproduction
65. me\_\_\_\_m color *adj.* of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information
66. di\_\_\_\_\_b his sleep *v.* to interrupt someone who is trying to work, sleep, etc.
67. pr\_\_\_\_\_t when she will arrive *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience

ANSWERS: 58. incredible, 59. concierge, 60. microscopic, 61. convert, 62. limitation, 63. stack, 64. generate, 65. medium, 66. disturb, 67. predict

68. the DNA se\_\_\_\_\_ce  
*n.* a series of related events, actions, numbers, etc., which have a particular order
69. th\_\_\_\_\_l insulation  
*adj.* relating to heat or temperature; designed for or capable of producing or maintaining heat
70. clogged fi\_\_\_\_\_r  
*n.* any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light
71. ar\_\_\_\_\_e the meeting  
*v.* to plan, prepare for, and carry out something
72. 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
73. al\_\_n the economic interest of each other  
*v.* to put or arrange two or more things in a straight line or to form a straight line
74. limited edition lit\_\_\_\_\_ph  
*n.* a printmaking process that involves creating a design on a flat stone or metal plate, transferring the design to paper using ink, and then printing multiple copies of the design
75. sl\_\_\_\_\_e length  
*n.* a part of a garment that covers all or part of an arm
76. a tiny ch\_\_k of meat  
*n.* a thick and solid mass or piece of something
77. b\_\_e array  
*n.* a unit of digital information that consists of 8 bits, typically used to represent a single character of text or a small amount of computer code

ANSWERS: 68. sequence, 69. thermal, 70. filter, 71. arrange, 72. nanoscale, 73. align, 74. lithograph, 75. sleeve, 76. chunk, 77. byte

78. the list was ar\_\_\_\_\_ed alphabetically     *v.* to plan, prepare for, and carry out something
79. per\_\_\_\_\_lar angles     *adj.* forming, situated at, or being at a right angle to a given line or plane; upright or vertical; at right angles to the horizon
80. b\_\_e code     *n.* a unit of digital information that consists of 8 bits, typically used to represent a single character of text or a small amount of computer code
81. avoid uni\_\_\_\_\_nal harm     *adj.* not done or made on purpose; accidental
82. cor\_\_\_\_\_nd to a standard     *v.* to match or be similar to something else almost exactly; to exchange messages
83. flour made from gr\_\_n     *n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
84. ad\_\_\_\_\_e the technology     *v.* to go or move forward; to develop in a positive way
85. p\_\_e a challenge     *v.* to present a risk, problem, or other issues that must be addressed
86. outdoor rec\_\_\_\_\_on     *n.* the activity that renews your health and spirits by enjoyment and relaxation; the act or process of making something that existed in the past exists or seems to exist again in a different time or place
87. the p\_\_m side of the forearm     *n.* the inner surface of the hand from the wrist to the base of the fingers; any plant of the family Palmae having an unbranched trunk crowned by large pinnate or palmate leaves

ANSWERS: 78. arrange, 79. perpendicular, 80. byte, 81. unintentional, 82. correspond, 83. grain, 84. advance, 85. pose, 86. recreation, 87. palm

88. la\_\_r printer *n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
89. the te\_\_\_\_\_ue applied to construction *n.* a particular way or art of doing something that needs skill
90. sp\_\_\_\_\_ng machine *n.* the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn
91. ma\_\_\_\_\_ze a metal object *v.* to attract or draw someone or something towards oneself, often metaphorically; to make something magnetic
92. mo\_\_\_\_\_ry distraction *adj.* lasting for only a brief moment or an extremely short period of time; occurring momentarily
93. a pr\_\_\_\_\_on instrument *n.* the quality or condition of being exact and accurate
94. lo\_\_\_e a missing pet *v.* to specify or determine the exact position of someone or something
95. permanent ma\_\_\_\_t *n.* an object or substance that can attract certain materials, such as iron or steel
96. retie the st\_\_\_g and make it strong *n.* long, thin material used for tying things together, composed of several twisted threads
97. vo\_\_\_e of work *n.* the amount of space occupied by an object or substance; the magnitude of sound

ANSWERS: 88. laser, 89. technique, 90. spinning, 91. magnetize, 92. momentary, 93. precision, 94. locate, 95. magnet, 96. string, 97. volume

98. an ele\_\_\_\_\_al storm      *adj.* relating to electricity
99. sh\_\_\_k with fear      *v.* to become smaller, or to make something smaller in size or amount
100. as\_\_\_t his goal      *v.* to help someone in doing anything
101. have a st\_\_\_e job      *adj.* firm and steady; not easily moved, disturbed, or changed
102. lim\_\_\_\_\_on of exercise      *n.* a rule or act that restricts the scope of something
103. 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
104. co\_\_\_\_\_e augmented reality      *v.* to join or merge to form a single thing or group
105. sta\_\_\_\_\_cs for cancer      *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
106. ele\_\_\_\_\_tic properties      *adj.* of or relating to the magnetism produced by electric charge in motion
107. lon\_\_\_\_\_nal axes      *adj.* relating to or measuring along the length of an object or course or longitude (= the angular distance between a point on any meridian and the prime meridian at Greenwich); running downwards rather than across

ANSWERS: 98. electrical, 99. shrink, 100. assist, 101. stable, 102. limitation, 103. process, 104. combine, 105. statistics, 106. electromagnetic, 107. longitudinal

108. c\_\_m more circuits into chips *v.* to force or try to fit a large amount of information into a short time, especially in preparation for an examination; to force or try to fit a large amount of something into a small space
109. ele\_\_\_\_\_tic radiation *adj.* of or relating to the magnetism produced by electric charge in motion
110. a good grounding in mat\_\_\_\_\_cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
111. beauty s\_\_t *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
112. lo\_\_\_e a tumor *v.* to specify or determine the exact position of someone or something
113. in\_\_\_\_\_e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
114. pr\_\_\_\_\_t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
115. re\_\_\_\_\_e the computer error *v.* to find a suitable answer to the problems or difficulty
116. talented ph\_\_\_\_\_st *n.* a scientist who specializes in the field of physics
117. population de\_\_\_\_\_y *n.* the quality of compactness of a substance
118. a st\_\_\_d of fine hair *n.* a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore

ANSWERS: 108. cram, 109. electromagnetic, 110. mathematics, 111. spot, 112. locate, 113. involve, 114. predict, 115. resolve, 116. physicist, 117. density, 118. strand

119. ma\_\_\_\_\_ic field *adj.* having the properties of attracting or repelling certain materials containing iron or steel
120. per\_\_\_\_\_lar walls *adj.* forming, situated at, or being at a right angle to a given line or plane; upright or vertical; at right angles to the horizon
121. take ad\_\_\_\_\_ge of his weak points *n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
122. sq\_\_\_\_\_e a lemon *v.* to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness
123. na\_\_\_\_\_le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
124. re\_\_\_\_\_e a dispute *v.* to find a suitable answer to the problems or difficulty
125. se\_\_\_\_\_te cream from milk *v.* to force, take, or pull apart; mark as different
126. the bl\_\_e of a turbine *n.* the flat part of a knife, weapon, or machine with a very thin edge used for cutting
127. a s\_\_t on his honor *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
128. the characters that re\_\_\_\_\_nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute

ANSWERS: 119. magnetic, 120. perpendicular, 121. advantage, 122. squeeze, 123. nanoscale, 124. resolve, 125. separate, 126. blade, 127. spot, 128. represent

129. tense piano st\_\_\_gs *n.* long, thin material used for tying things together, composed of several twisted threads
130. d\_\_k space *n.* a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music
131. the gen\_\_\_\_\_on of electricity *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
132. a te\_\_\_\_\_ue in martial arts *n.* a particular way or art of doing something that needs skill
133. equ\_\_\_\_\_nt in meaning *n.* having the same value, quality, meaning, purpose, etc.
134. probabilistic qu\_\_\_\_\_m theory *n.* the smallest amount or unit of something, especially (electromagnetic) energy
135. equ\_\_\_\_\_nt amounts *n.* having the same value, quality, meaning, purpose, etc.
136. portable pho\_\_\_\_\_ph *n.* an early sound-reproducing machine that plays audio recordings, typically in the form of cylindrical or disc-shaped records; often referred to as an early version of the record player or gramophone
137. lit\_\_\_\_\_ph print *n.* a printmaking process that involves creating a design on a flat stone or metal plate, transferring the design to paper using ink, and then printing multiple copies of the design

ANSWERS: 129. string, 130. disk, 131. generation, 132. technique, 133. equivalent, 134. quantum, 135. equivalent, 136. phonograph, 137. lithograph



138. early pr\_\_\_\_\_pe *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
139. high st\_\_k *n.* a pile of something arranged or laid one on top of another; a large tall chimney through which combustion gases and smoke can be evacuated
140. 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
141. cutting-edge inn\_\_\_\_\_on *n.* the creation of a new device or process resulting from study and experimentation
142. tr\_\_\_\_\_te a document into English *v.* to convert or change words into another language
143. theoretical ph\_\_\_\_\_st *n.* a scientist who specializes in the field of physics
144. am\_\_\_\_\_g advances *adj.* extremely surprising, especially in a way that you like or admire
145. pre-mo\_\_\_n agricultural society *adj.* of or belonging to the present time or recent times
146. res\_\_\_\_\_ce to insulin *n.* the act of defending oneself from an aggressor or refusing to accept something
147. pot\_\_\_\_\_ly affected *adv.* in a possible state or condition; possibly
148. co\_\_\_\_\_e chemically with another substance *v.* to join or merge to form a single thing or group

ANSWERS: 138. prototype, 139. stack, 140. discovery, 141. innovation, 142. translate, 143. physicist, 144. amazing, 145. modern, 146. resistance, 147. potentially, 148. combine

149. gen\_\_\_\_\_on gap *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
150. high vo\_\_\_e *n.* the amount of space occupied by an object or substance; the magnitude of sound
151. se\_\_\_\_\_ve documents *adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
152. p\_\_e a significant threat to my company *v.* to present a risk, problem, or other issues that must be addressed
153. antique pho\_\_\_\_\_ph *n.* an early sound-reproducing machine that plays audio recordings, typically in the form of cylindrical or disc-shaped records; often referred to as an early version of the record player or gramophone
154. complete a pr\_\_\_\_\_pe product *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
155. rem\_\_\_\_\_le achievement *adj.* worthy of attention because unusual or special
156. officious int\_\_\_\_\_nce *n.* the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with
157. ne\_\_\_e prick *n.* a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood

ANSWERS: 149. generation, 150. volume, 151. sensitive, 152. pose, 153. phonograph, 154. prototype, 155. remarkable, 156. interference, 157. needle

158. higher pixel de\_\_\_\_\_y      *n.* the quality of compactness of a substance
159. the RSA al\_\_\_\_\_hm      *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
160. mo\_\_\_\_\_ry pause      *adj.* lasting for only a brief moment or an extremely short period of time; occurring momentarily
161. ge\_\_\_\_\_te \$100 a month      *v.* to produce or create something; to make offspring by reproduction
162. a ch\_\_k of money      *n.* a thick and solid mass or piece of something
163. tr\_\_\_\_\_te the emotion to a movement      *v.* to convert or change words into another language
164. co\_\_\_\_\_t base 10 to base 16      *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
165. the se\_\_\_\_\_ce of the seasons      *n.* a series of related events, actions, numbers, etc., which have a particular order
166. sewing ne\_\_\_e      *n.* a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood
167. re\_\_\_\_\_ze achievement      *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
168. re\_\_\_\_\_nt by a diagram      *v.* to speak, act, or be present on behalf of another person or group; to form or constitute

ANSWERS: 158. density, 159. algorithm, 160. momentary, 161. generate, 162. chunk, 163. translate, 164. convert, 165. sequence, 166. needle, 167. recognize, 168. represent

169. the most am\_\_\_\_\_g feeling *adj.* extremely surprising, especially in a way that you like or admire
170. 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
171. s\_\_n thread out of cotton *v.* to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
172. speak with pr\_\_\_\_\_on *n.* the quality or condition of being exact and accurate
173. the rem\_\_\_\_\_le breadth of knowledge *adj.* worthy of attention because unusual or special
174. inn\_\_\_\_\_on leader *n.* the creation of a new device or process resulting from study and experimentation
175. pulse la\_\_r *n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
176. di\_\_\_\_\_b the peace *v.* to interrupt someone who is trying to work, sleep, etc.
177. the st\_\_\_\_\_re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
178. a civil en\_\_\_\_\_er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software

ANSWERS: 169. amazing, 170. discovery, 171. spin, 172. precision, 173. remarkable, 174. innovation, 175. laser, 176. disturb, 177. structure, 178. engineer

ANSWERS:

## Session 3: Fill in the Blanks

1. It's notoriously challenging to \_\_\_\_\_ birth rates.
  - v. to state beforehand that something will happen in the future, mainly based on knowledge or experience
  
2. She had to \_\_\_\_\_ for the final exam and stayed up all night studying.
  - v. to force or try to fit a large amount of information into a short time, especially in preparation for an examination; to force or try to fit a large amount of something into a small space
  
3. The construction worker used a \_\_\_\_\_ saw to cut through the stubborn sheet metal.
  - n. a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes
  
4. He has a flair for \_\_\_\_\_.
  - n. the science dealing with the logic of quantities, shapes, spaces, and arrangement
  
5. The tornado is \_\_\_\_\_ across the countryside, destroying everything in its path.
  - v. to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
  
6. This high-performance camera is compact enough to fit in the \_\_\_\_\_ of your hand.
  - n. the inner surface of the hand from the wrist to the base of the fingers; any plant of the family Palmae having an unbranched trunk crowned by large pinnate or palmate leaves

ANSWERS: 1. predict, 2. cram, 3. metal, 4. mathematics, 5. spinning, 6. palm

7. Ozone is a primary \_\_\_\_\_ to protect Earth's surface from harmful UV rays.
- n.* any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light
8. The band played a smooth \_\_\_\_\_ that got everyone dancing.
- n.* a long, narrow cut or depression in a hard material or surface; a particular style of popular music characterized by a strong and repetitive rhythm
9. The \_\_\_\_\_ at the hotel was able to provide excellent recommendations for local restaurants.
- n.* an employee or staff member, often found in hotels or residential buildings, who assists guests or residents with various services, such as making reservations, providing information or recommendations, arranging transportation, or handling special requests
10. Big techs are now eager to develop \_\_\_\_\_ computers.
- n.* the smallest amount or unit of something, especially (electromagnetic) energy
11. The new advertising campaign aims to \_\_\_\_\_ a younger audience.
- v.* to attract or draw someone or something towards oneself, often metaphorically; to make something magnetic
12. Einstein was an outstanding and famous \_\_\_\_\_ of the 20th century.
- n.* a scientist who specializes in the field of physics
13. The researchers conducted a \_\_\_\_\_ study on the effects of the new medication.
- adj.* relating to or measuring along the length of an object or course or longitude (= the angular distance between a point on any meridian and the prime meridian at Greenwich); running downwards rather than across

ANSWERS: 7. filter, 8. groove, 9. concierge, 10. quantum, 11. magnetize, 12. physicist, 13. longitudinal

14. Unfortunately, the radio \_\_\_\_\_ made it difficult to hear the broadcast.  
*n.* the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with
15. The robot can accurately \_\_\_\_\_ construction material.  
*v.* to specify or determine the exact position of someone or something
16. One of the main \_\_\_\_\_ of the new product is its increased efficiency.  
*n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
17. The company is undergoing an \_\_\_\_\_ opening new locations in several states.  
*n.* the process of becoming larger or more extensive, or the result of this process
18. Ordinary air purifiers cannot adequately remove pollen \_\_\_\_\_.  
*n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
19. The vegetarian burger was an \_\_\_\_\_ that quickly spread to the United Kingdom.  
*n.* the creation of a new device or process resulting from study and experimentation
20. Disability is a physical \_\_\_\_\_ to living everyday life.  
*n.* a rule or act that restricts the scope of something
21. The organization assisted in the de-escalation of \_\_\_\_\_ violent situations.  
*adv.* in a possible state or condition; possibly

ANSWERS: 14. interference, 15. locate, 16. advantages, 17. expansion, 18. grains, 19. innovation, 20. limitation, 21. potentially



22. The \_\_\_\_\_ force of the earth keeps our planet spinning.  
*adj.* having the properties of attracting or repelling certain materials containing iron or steel
23. This operation requires both patience and \_\_\_\_\_.  
*n.* the quality or condition of being exact and accurate
24. Both parties are now entirely ideologically \_\_\_\_\_.  
*v.* to put or arrange two or more things in a straight line or to form a straight line
25. The company holds patents on core components of \_\_\_\_\_ jet printers.  
*n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
26. She wore a \_\_\_\_\_ of pearls around her neck.  
*n.* long, thin material used for tying things together, composed of several twisted threads
27. She took a \_\_\_\_\_ class at the gym to improve her cardiovascular fitness.  
*n.* the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn
28. Hydrogen and oxygen \_\_\_\_\_ to form water.  
*v.* to join or merge to form a single thing or group
29. We store customer data in cloud \_\_\_\_\_.  
*n.* the act or process of putting in and keeping something in a particular place for use in the future; an electronic memory device that can store information

ANSWERS: 22. magnetic, 23. precision, 24. aligned, 25. laser, 26. string, 27. spinning, 28. combine, 29. storage

30. Her response revealed \_\_\_\_\_ idiocy.

*adj.* unbelievable; enormous

31. The computer hard drive had plenty of storage space but was running low on available \_\_\_\_\_.

*n.* a unit of digital information that consists of 8 bits, typically used to represent a single character of text or a small amount of computer code

32. The economic stimulation program would \_\_\_\_\_ a lot of new jobs.

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

33. Please \_\_\_\_\_ her with the furniture relocation.

*v.* to help someone in doing anything

34. Actuators convert \_\_\_\_\_ pulses into motion.

*adj.* relating to electricity

35. We can evaluate the performance of an \_\_\_\_\_ in terms of computation time.

*n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

36. The acupuncturist inserted \_\_\_\_\_ into specific points on my body to alleviate my pain.

*n.* a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood

37. The \_\_\_\_\_ will repair my telephone tomorrow morning.

*n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software

ANSWERS: 30. incredible, 31. bytes, 32. generate, 33. assist, 34. electrical, 35. algorithm, 36. needles, 37. engineer

38. Do you know the \_\_\_\_\_ of the population in Hong Kong?

*n.* the quality of compactness of a substance

39. The mistake was \_\_\_\_\_ and made in good faith.

*adj.* not done or made on purpose; accidental

40. Their headquarters are in a \_\_\_\_\_ skyscraper.

*adj.* of or belonging to the present time or recent times

41. The art gallery showcased a collection of colorful \_\_\_\_\_ prints by renowned artists.

*n.* a printmaking process that involves creating a design on a flat stone or metal plate, transferring the design to paper using ink, and then printing multiple copies of the design

42. The earthquake caused a \_\_\_\_\_ of lumber to crumble noisily.

*n.* a pile of something arranged or laid one on top of another; a large tall chimney through which combustion gases and smoke can be evacuated

43. Scientific knowledge will \_\_\_\_\_ significantly with the power of AI.

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

44. \_\_\_\_\_ the text from Italian into English.

*v.* to convert or change words into another language

45. I heard several melodic \_\_\_\_\_ simultaneously.

*n.* a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore

ANSWERS: 38. density, 39. unintentional, 40. modern, 41. lithographic, 42. stack, 43. advance, 44. Translate, 45. strands

46. The European Central Bank is Europe's \_\_\_\_\_ of the Federal Reserve.  
*n.* having the same value, quality, meaning, purpose, etc.
47. This container has a \_\_\_\_\_ of 10 cubic meters.  
*n.* the amount of space occupied by an object or substance; the magnitude of sound
48. My grandparents used to listen to their favorite songs on the vinyl \_\_\_\_\_.  
*n.* an early sound-reproducing machine that plays audio recordings, typically in the form of cylindrical or disc-shaped records; often referred to as an early version of the record player or gramophone
49. This remote \_\_\_\_\_ is rarely visited.  
*n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
50. The computer's hard \_\_\_\_\_ was full, so she had to delete some files.  
*n.* a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music
51. The \_\_\_\_\_ lapse in concentration caused her to miss the crucial shot.  
*adj.* lasting for only a brief moment or an extremely short period of time; occurring momentarily
52. The numbers on the sign \_\_\_\_\_ to points on the map.  
*v.* to match or be similar to something else almost exactly; to exchange messages
53. The two lines were perfectly \_\_\_\_\_ to each other.  
*adj.* forming, situated at, or being at a right angle to a given line or plane; upright or vertical; at right angles to the horizon

ANSWERS: 46. equivalent, 47. volume, 48. phonograph, 49. spot, 50. disk, 51. momentary, 52. correspond, 53. perpendicular

54. The \_\_\_\_\_ size shirt fits him perfectly.

*adj.* of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information

55. The younger \_\_\_\_\_ has different values and beliefs than the older one.

*n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity

56. We do move forward with those tasks in \_\_\_\_\_ next week.

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

57. The \_\_\_\_\_ imaging camera was used to detect heat signatures in the dark.

*adj.* relating to heat or temperature; designed for or capable of producing or maintaining heat

58. 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

59. He rolled up his \_\_\_\_\_ to get ready to work.

*n.* a part of a garment that covers all or part of an arm

60. The organizational \_\_\_\_\_ of start-ups is often flat and straightforward.

*n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

61. The \_\_\_\_\_ of the katana itself is still in excellent condition.

*n.* the flat part of a knife, weapon, or machine with a very thin edge used for cutting

ANSWERS: 54. medium, 55. generation, 56. sequence, 57. thermal, 58. nanoscale, 59. sleeves, 60. structure, 61. blade

62. The bill to increase the consumption tax had passed despite much \_\_\_\_\_ from the public.
- n.* the act of defending oneself from an aggressor or refusing to accept something
63. We elected him to \_\_\_\_\_ us at the international conference.
- v.* to speak, act, or be present on behalf of another person or group; to form or constitute
64. The flying car is presently in the \_\_\_\_\_ stage.
- n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
65. Tourists frequently \_\_\_\_\_ the island's delicate natural balance.
- v.* to interrupt someone who is trying to work, sleep, etc.
66. I want to \_\_\_\_\_ my sadness into strength.
- v.* to have a talk with someone; (adjective) reversed in order, relation, or action
67. Basketball is their usual \_\_\_\_\_ after school.
- n.* the activity that renews your health and spirits by enjoyment and relaxation; the act or process of making something that existed in the past exists or seems to exist again in a different time or place
68. We need to \_\_\_\_\_ the aspect of his personality from the part of his competence when making an investment decision.
- v.* to force, take, or pull apart; mark as different
69. 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

ANSWERS: 62. resistance, 63. represent, 64. prototype, 65. disturb, 66. convert, 67. recreation, 68. separate, 69. discovery

70. The \_\_\_\_\_ demonstrate that poverty and unemployment are genuine problems.  
*n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
71. His hypothesis concerns the role of an \_\_\_\_\_ field in human health.  
*adj.* of or relating to the magnetism produced by electric charge in motion
72. The teacher is very \_\_\_\_\_ to children's feelings.  
*adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
73. The election was a \_\_\_\_\_ success for the Whigs.  
*adj.* worthy of attention because unusual or special
74. The MRI machine uses \_\_\_\_\_ to produce images of the body's internal organs.  
*n.* an object or substance that can attract certain materials, such as iron or steel
75. She \_\_\_\_\_ the toothpaste tube from the middle to get the last bit out.  
*v.* to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness
76. Since the 1990s, the Internet has continued to experience \_\_\_\_\_ growth.  
*adj.* becoming more and more rapid; of or involving mathematical exponents
77. The investigation \_\_\_\_\_ several government agencies and is expected to take several months.  
*v.* to include or affect someone or something as a necessary part of something else

ANSWERS: 70. statistics, 71. electromagnetic, 72. sensitive, 73. remarkable, 74. magnets, 75. squeezed, 76. exponential, 77. involves

78. This shirt will \_\_\_\_\_ in the wash.

*v.* to become smaller, or to make something smaller in size or amount

79. The golfer recorded an \_\_\_\_\_ distance.

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

80. Inspectors noticed \_\_\_\_\_ cracks in the submarine's hull.

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

81. Jockey's superior \_\_\_\_\_ brought him victory.

*n.* a particular way or art of doing something that needs skill

82. 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

83. This company \_\_\_\_\_ its battery problem completely.

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

84. The drama is fascinating and action-\_\_\_\_\_.

*adj.* extremely full of people; very crowded

85. I need to \_\_\_\_\_ plans with him for the celebration.

*v.* to plan, prepare for, and carry out something

86. The new start-up company carved out a large \_\_\_\_\_ of the market within a year.

*n.* a thick and solid mass or piece of something

ANSWERS: 78. shrink, 79. amazing, 80. microscopic, 81. technique, 82. process, 83. resolves, 84. packed, 85. arrange, 86. chunk



87. It's important to \_\_\_\_\_ your strengths and weaknesses.

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

88. Relations between the two countries have been relatively \_\_\_\_\_ due to the summit meeting.

- adj.* firm and steady; not easily moved, disturbed, or changed

89. The chemicals \_\_\_\_\_ a massive health risk.

- v. to present a risk, problem, or other issues that must be addressed

ANSWERS: 87. recognize, 88. stable, 89. pose