

# Englist.me



## Vocabulary Builder Reference from...

Harald Haas: Wireless data from every light bulb |

TED Talk

[https://www.ted.com/talks/harald\\_haas\\_wireless\\_data](https://www.ted.com/talks/harald_haas_wireless_data)

[\\_from\\_every\\_light\\_bulb](#)

### All Words

#### IMPORTANT

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## Session 1: Word List

### cellular

*adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

*synonym* : organic, biological, nuclear

(1) **cellular** and molecular biology, (2) a **cellular** phone handset

This factory employs a **cellular** manufacturing system.

### mast

*n.* a long pole aboard a boat or ship that holds up the sails

(1) **mast** height, (2) built-up **mast**

The main cabin is located in front of the **mast**.

### deploy

*v.* to move troops or weapons into a position or military action; to bring into something in an effective way

*synonym* : set up, expand, launch

(1) **deploy** troops for battle, (2) **deploy** safety measures

This country **deployed** its weapons in the east region.

### device

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

*synonym* : gadget, instrument, tool

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

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

## 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.

## 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**.

## wireless

*adj.* of or relating a connection or communication that does not require a physical wire or cable, often through the use of radio waves or electromagnetic signals

*synonym*: cordless, radio

(1) **wireless** access, (2) **wireless** charging

The office's **wireless** network allows employees to work from anywhere in the building.

## communicate

*v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals

*synonym*: convey, share, transmit

(1) **communicate** his anxieties to the psychiatrist,

(2) **communicate** well with my advisor

Dolphins use sound to **communicate** with each other.

## utility

*n.* the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public

*synonym*: usefulness, practicality, utility

(1) **utility** costs, (2) marginal **utility**

The **utility** of the device was immediately apparent to all who saw it.

## electrify

*v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

*synonym*: wire, amaze, astonish

(1) **electrify** the audience, (2) **electrify** a manufacturing process

The product developed through years of research continues to **electrify** the market.

## importance

*n.* the quality of being important and worthy of note

*synonym*: significance, primacy, matter

(1) a man of **importance**, (2) high **importance**

I stopped by the branch though I have no business of **importance**.

## decide

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

*synonym*: choose, determine, settle

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

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

## fundamental

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

*synonym*: basic, essential, entire

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

Human behavior has **fundamental** characteristics.

## 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.

## scarce

*adj.* not abundant or plentiful, and therefore not easy to find or obtain

*synonym* : rare, limited, sparse

(1) **scarce** resources, (2) capital- **scarce** country

Fresh water is becoming increasingly **scarce** in many parts of the world.

## transmission

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

*synonym* : transportation, communication, broadcast

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

Education is the **transmission** of civilization.

## spectrum

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

*synonym* : range, scale, spread

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

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

## efficiency

*n.* the state or quality of doing something well with no waste of input such as time or money

*synonym* : effectiveness, efficacy, productivity

(1) better fuel **efficiency**, (2) an energy **efficiency**

Our company must continue to strive for greater **efficiency**.

## consume

*v.* to spend something, especially fuel, energy, or time, in a large amount

*synonym* : absorb, ingest, use up

(1) **consume** a large of alcohol, (2) **consume** electricity

A smaller car will **consume** less fuel.

- flee** v. to leave by running away, especially out of fear or danger  
*synonym*: exit, escape, run away  
(1) **flee** their homes, (2) **flee** abroad  
It is a basic instinct to **flee** from a dangerous situation.
- penetrate** v. to pass into or through something, often by overcoming resistance  
*synonym*: pierce, stab, go through  
(1) **penetrate** a cell, (2) **penetrate** quickly into the skin  
Western ideology slowly **penetrates** through the eastern countries.
- intercept** v. to stop and catch someone or something to prevent them from continuing to a destination  
*synonym*: ambush, block, prevent  
(1) **intercept** an enemy force, (2) **intercept** X rays  
It is illegal to **intercept** police radio.
- intention** n. something you want to do and are going to do  
*synonym*: purpose, connotation, will  
(1) **intention** behind his decision, (2) clear **intention**  
Our CEO's **intentions** are always transparent and straightforward.
- bulb** n. a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball  
(1) wet- **bulb** thermometer, (2) a lily **bulb**  
The light **bulb** has burned out.
- context** n. the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning  
*synonym*: background, setting, environment  
(1) historical **context**, (2) legal **context**

It's important to understand the **context** of a situation before making a decision.

## gamma

*n.* the third letter of the Greek alphabet; a type of radiation having the shortest wavelength and highest energy of electromagnetic waves

*synonym* : ray, radiation, emission

(1) **gamma** radiation, (2) **gamma** particles

**Gamma** rays are a type of high-energy radiation that can be harmful to living organisms.

## ray

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

*synonym* : beam, light, glimmer

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

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

## X-ray

*n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed

*synonym* : roentgenogram, photon radiography

(1) **X-ray** scan, (2) an **X-ray** of arteries

The doctor ordered an **X-ray** to see if there was any damage to the bones.

## ultraviolet

*adj.* relating to or occupying the part of the spectrum beyond the violet end, especially radiation

*synonym* : black light, UV light, invisible light

(1) **ultraviolet** protection, (2) **ultraviolet** light

**Ultraviolet** radiation can cause skin damage if one is exposed for too long.

## suntan

*n.* a darkening of the skin due to exposure to the sun, often as a result of deliberate sunbathing or outdoor activities with prolonged exposure to bright sunlight

*synonym* : sunburn, bronze, skin color

(1) deep **suntan**, (2) **suntan** bed

I spent the day at the beach and got a beautiful **suntan**.

## 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.

## mention

*v.* to speak or write about something or someone briefly

*synonym* : reference, allude, cite

(1) **mention** name, (2) **mention** in a report

I **mentioned** to him that I had seen his sister at the grocery store earlier that day.

## visible

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

*synonym* : clear, observable, seeable

(1) **visible** stars, (2) **visible** by X-ray

My home is easily **visible** from the shore.

## inherent

*adj.* existing in something as a permanent, essential, or characteristic attribute

*synonym* : intrinsic, natural, innate

(1) **inherent** risk, (2) have an **inherent** dislike

Honesty is an **inherent** quality that everyone should strive to possess.

## expend

*v.* to use or spend time, money, energy, etc.

*synonym* : disburse, spend, pay

(1) **expend** a great deal of energy, (2) **expend** time and resources

Billionaires tend to **expend** private funds on a public undertaking.

## inefficient

*adj.* lacking the ability or skill and not making the best use of time, money, energy, etc.

*synonym* : ineffective, counterproductive, inadequate

(1) **inefficient** use, (2) **inefficient** management

The system is still so **inefficient** that it is useless.

## multiply

*v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity

*synonym* : boost, amplify, reproduce

(1) **multiply** 5 and 6, (2) **multiply** about hundredfold

**Multiply** a number by itself twice.

## install

*v.* to fix furniture, a machine, or a piece of equipment into position so that it can be used; put into an office or a position

*synonym* : establish, inaugurate, lodge

(1) **install** a door, (2) **install** a chairperson

The new president was **installed** immediately after the national election.

## infrastructure

*n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies

*synonym* : foundation, framework

(1) IT **infrastructure**, (2) **infrastructure** cost

Aging societies tend to require huge costs for **infrastructure** maintenance.

## ceiling

*n.* a room's top interior surface

*synonym* : canopy, awning, shelter

(1) **ceiling** board, (2) **ceiling** light

There was a crack in the **ceiling** that I found.

## 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.

## incandescent

*adj.* emitting light as a result of being heated; shining brightly; passionate or enthusiastic

*synonym*: glowing, radiant, brilliant

(1) **incandescent** emotion, (2) **incandescent** personality

The **incandescent** lights in the room created a warm and inviting atmosphere.

## efflorescent

*adj.* relating to the process of flowering or blooming; characterized by the formation of a powdery or crystalline deposit on the surface of a material due to the evaporation of water or other solvents

*synonym*: blooming, blossoming, flowering

(1) **efflorescent** crystals, (2) **efflorescent** growth

The artist's **efflorescent** paintings were featured in the gallery's exhibition.

## semiconductor

*n.* a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices

*synonym*: chip, wafer

(1) **semiconductor** industry, (2) **semiconductor** device

The company develops and sells **semiconductor** memory for use in computers and servers.

## 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.

## acute

*adj.* extremely sharp or severe

*synonym*: sharp, perceptive, keen

(1) **acute** pain, (2) **acute** triangle

The patient died from **acute** alcohol intoxication.

## property

*n.* a thing or things that belong to someone

*synonym*: belongings, possessions, equity

(1) a man of **property**, (2) chemical **property**

He stood to inherit a million-dollar **property**.

## intense

*adj.* (especially of a feeling) very strong; extremely sharp or severe

*synonym*: extreme, fierce, harsh

(1) **intense** heat, (2) develop **intense** itching

That statement by the prime minister drew **intense** international criticism.

## mod

*n.* a modification or alteration, typically one made to improve something or increase its functionality; a British teenager or young adult in the 1960s, noted for their clothes consciousness and opposition to the rockers

*synonym*: alteration, modification, tweak

(1) **mod** culture, (2) a house with **mod** cons

The **mod** for the video game added new features and improved gameplay.

## exploit

*v.* to make full use of and gain an advantage from resources, opportunities, etc.

*synonym*: use, abuse, control

(1) **exploit** a security hole, (2) **exploit** a valuable opportunity

We **exploit** our mining resources to strengthen our national power.

## stream

*n.* a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.

*synonym*: flow, current, brook

(1) the **stream** of time, (2) an endless **stream** of cars

Jet **streams** are the common name for air currents that form high in the atmosphere.

## 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.

## parallel

*adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations

*synonym*: aligned, side-by-side, similar

(1) a **parallel** case, (2) **parallel** processing

He walked a road **parallel** to the railroad.

## spatial

*adj.* of or relating space and the position, area, and size of things

*synonym*: dimensional, geographical

(1) **spatial** ability, (2) **spatial** distribution

He carefully determined the **spatial** relations of every piece of the stage set.

## modulate

v. to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something

*synonym*: regulate, inflect, adjust

(1) **modulate** the function, (2) **modulate** from one key to another

These chemicals **modulate** the effect of metabolism.

## slide

v. to move or cause to move smoothly along a surface without interruption

*synonym*: glide, drift, drop

(1) **slide** a card across the table, (2) **slide** a glance

If necessary, you can **slide** the front seats forward.

## demonstrator

*n.* a person who publicly advocates for or protests against a particular cause, often in a group or a public space

*synonym* : protester, activist

(1) peaceful **demonstrator**, (2) violent **demonstrator**

The police gathered in large numbers to control the **demonstrators** protesting in the streets.

## ordinary

*adj.* not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree

*synonym* : mundane, prosaic, average

(1) an **ordinary** school, (2) **ordinary** annual revenue

The **ordinary** session of the Diet opened.

## 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.

## receiver

*n.* the part of a phone that you hold close to your ear and mouth; a person who receives something

*synonym* : acceptor, recipient, collector

(1) a GPS **receiver**, (2) aid **receiver**

Delivery companies often require the **receiver's** signature to certify the completion of package delivery.

## 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.

## subtle

*adj.* not readily apparent or visible

*synonym* : slight, nuanced, exquisite

(1) **subtle** changes, (2) a **subtle** poison

A famous artist painted the room in a **subtle** pink hue.

## amplitude

*n.* the extent or magnitude of something; the volume or intensity of a sound wave or signal

*synonym* : magnitude, extent, breadth

(1) muscle **amplitude**, (2) high **amplitude**

The **amplitude** of the sound waves determines the volume of the music.

## electrical

*adj.* relating to electricity

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

Actuators convert **electrical** pulses into motion.

## integrate

*v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups

*synonym* : mix, merge, combine

(1) **integrate** into the existing system, (2) **integrate** both businesses

He found that it is difficult to **integrate** socially.

## 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.

## beneath

*adv.* in or to a lower place than someone or something

*synonym* : down, under, low

(1) the ground **beneath** my feet, (2) **beneath** contempt

A great stretch of the lake lay **beneath** them.

## illuminating

*adj.* making something clear or easy to understand; providing light

*synonym* : enlightening, informative, clarifying

(1) **illuminating** light, (2) an **illuminating** answer

The lecture was **illuminating** and gave me a new perspective on the topic.

## definition

*n.* a concise explanation of the meaning of a word, phrase, or symbol

*synonym* : description, connotation, meaning

(1) a precise **definition**, (2) the **definition** of a word

Parallel lines are, by **definition**, lines on the same plane that never cross.

## 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.

## critic

*n.* someone who expresses opinions about the quality of books, music, etc.

*synonym* : pundit, analyst, attacker

(1) art **critic**, (2) severe **critic**

Advocates for legal reform hear less harsh words from their **critics**.

## academic

*adj.* associated with schools, colleges, and universities, especially studying and thinking, not with practical skills

*synonym* : educational, scholarly, theoretical

(1) **academic** probation, (2) an **academic** discussion

An excellent historian must possess an **academic** mentality.

## split

*v.* to divide, or to make something divide into two or more parts, especially along a particular line

*synonym* : break, divide, break apart

(1) **split** a bill, (2) **split** a reward equally

Companies often **split** their shares to lower the stock price and encourage investors to buy.

## impressive

*adj.* arousing admiration due to size, quality, or skill

*synonym* : impactful, remarkable, exceptional

(1) **impressive** performances, (2) an **impressive** array of facts

The budget reduction was an **impressive** feat for our nation.

## illumination

*n.* light or source of light; the degree of visibility of your environment

*synonym* : light, luminosity, brightness

(1) starry **illumination**, (2) indirect **illumination**

The skylight will give adequate **illumination** from above.

## ignore

*v.* to intentionally not listen or pay attention to

*synonym* : neglect, disregard, shun

(1) **ignore** her advice, (2) **ignore** a ban

Since independence, the area has been completely **ignored**.

## constant

*adj.* happening repeatedly or all the time

*synonym* : ceaseless, stable, unchanging

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

**Constant** dropping wears away the stone.

## dim

*adj.* poorly lit; not bright

*synonym* : dull, faint, weak

(1) **dim** and distant past, (2) **dim** memory

The **dim** light made it difficult to read the book.

## 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.

## avail

v. to help or benefit; to use or take advantage of

*synonym*: help, benefit, serve

(1) **avail** you little, (2) **avail** ourselves of this opportunity

Their financing options are reasonable and easy to **avail**.

## aircraft

n. any vehicle that can fly and carry things or passengers, such as a plane or helicopter

*synonym*: airplane, plane, airliner

(1) an **aircraft** landing, (2) **aircraft** control system

The marine **aircraft** manufacturer demonstrated their newest hydroplane.

## flashlight

n. a portable electric light with a handle and a switch that can be turned on and off

*synonym*: torch, lamp, beacon

(1) **flashlight** beam, (2) **flashlight** batteries

He used a backup **flashlight** to find his way through the dark cave.

## imaginary

adj. existing only in someone's mind

*synonym*: fictional, ideal, fantastical

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

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

## illuminate

v. to light something or to make something lighter or brighter; to make something free from confusion or ambiguity

*synonym*: brighten, light, adorn

(1) **illuminate** a dark hall, (2) **illuminate** my understanding

That biologist **illuminated** the mechanism of heredity.



## intrinsically

*adv.* from the inherent nature or quality of something or arising from within

*synonym*: inherently, essentially, fundamentally

(1) **intrinsically** motivated, (2) **intrinsically** valuable

The kindness of strangers is **intrinsically** rewarding, even when no reward is expected.

## environment

*n.* the natural world such as air, water, and land in which humans, animals, and plants live

*synonym*: atmosphere, surroundings, climate

(1) **environment** affairs, (2) chaotic **environment**

Every human is responsible for taking care of the Earth's **environment**.

## petrochemical

*n.* a chemical compound derived from petroleum or natural gas, used as a raw material in the manufacture of plastics, synthetic fibers, and other products

*synonym*: oil-based, chemical-based, refinery product

(1) **petrochemical** complex, (2) **petrochemical** plant

The town's economy relies heavily on the **petrochemical** industry.

## antenna

*n.* an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects

*synonym*: feeler, receiver

(1) **antenna** of insect, (2) extend the TV **antenna**

He had a special **antenna** for public relations

## spark

*v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity

*synonym*: start, inspire, provoke

(1) **spark** his interest, (2) **spark** a chain reaction

The bankruptcy of the giant conglomerate **sparked** turmoil in the stock market.

## medical

*adj.* relating to the treatment of illness or injuries; relating to the practice of medicine

*synonym* : health, disease, treatment

(1) a **medical** opinion, (2) temporary **medical** treatment

The **medical** team worked quickly to save the patient's life.

## instrument

*n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

*synonym* : apparatus, tool, device

(1) musical **instruments**, (2) surgical **instruments**

This electronic **instrument** is required to undergo periodic inspections to ensure precision.

## traffic

*n.* the movement of vehicles, people, or goods along a route or through a transport system; the amount of such movement in a particular place or at a particular time

*synonym* : congestion, jam, flow

(1) **traffic** jam, (2) heavy **traffic**

We decided to take a detour to avoid the construction **traffic** on the main road.

## headlight

*n.* a bright forward-facing light on a vehicle, typically used at night to illuminate the road ahead

*synonym* : headlamp, beam, lamp

(1) **headlight** adjustment, (2) **headlight** switch

My car's **headlight** must be replaced before I drive again at night.

## accident

*n.* an unfortunate event, especially one causing damage or injury

*synonym* : calamity, casualty, chance

(1) cause an **accident**, (2) injury in a car **accident**

The **accident** partially destroyed my vehicle.

## exchange

- v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded

*synonym* : trade, swap, interchange

(1) **exchange** rate, (2) **exchange** a few friendly words

My sister and I frequently **exchange** books, as we love reading.

## fidelity

- n.* faithfulness to a person, cause, or thing; loyalty or devotion to a duty or obligation; accuracy or exactness in reproducing or representing something

*synonym* : loyalty, devotion, allegiance

(1) **fidelity** guarantee deposit, (2) high **fidelity** music

The couple promised each other **fidelity** in their marriage vows.

## cabin

- n.* a small, simple dwelling or shelter, typically made of wood and located in a remote or rural area; an enclosed compartment or area within a larger structure, such as an aircraft or ship, where passengers or crew members can sit or sleep

*synonym* : hut, cottage, shack

(1) **cabin** crew, (2) log **cabin**

The quaint **cabin** in the woods was the perfect retreat for a weekend getaway.

## transmitter

- n.* a piece of equipment used for generating and sending electronic signals, especially radio or television signals

*synonym* : sender

(1) a **transmitter** of a family line, (2) radio **transmitter**

This substance acts as a neural **transmitter** substance.

## vision

- n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see

*synonym* : sight, image, concept

(1) a prodigious **vision**, (2) telescopic **vision**

Driving is difficult for me because of my poor **vision**.

## chip

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

*synonym* : flake, fragment, chunk

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

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

## 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.

## functional

*adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service

*synonym* : applicable, practical, usable

(1) field of **functional** medicine, (2) **functional** deafness

The mobile phone was still **functional** even after being dropped.

## symbiosis

*n.* a close, prolonged association between two or more different species of organisms, typically to the advantage of all

*synonym* : cooperation, interdependence, mutualism

(1) industrial **symbiosis**, (2) **symbiosis** establishment

The **symbiosis** between the coral and the algae is an important example of mutualism.

## essential

*adj.* indispensable; fundamental

*synonym* : critical, crucial, basic

(1) **essential** amino acid, (2) **essential** commodities of life

Trial and error is an **essential** part of education.

## Session 2: Spelling

1. sp\_\_\_\_l distribution *adj.* of or relating space and the position, area, and size of things
2. a me\_\_\_\_l opinion *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
3. ex\_\_\_\_t a security hole *v.* to make full use of and gain an advantage from resources, opportunities, etc.
4. a broad sp\_\_\_\_um of opinion *n.* an ordered array of colors into which a light beam can be split
5. violent dem\_\_\_\_tor *n.* a person who publicly advocates for or protests against a particular cause, often in a group or a public space
6. me\_\_\_\_n name *v.* to speak or write about something or someone briefly
7. de\_\_\_\_t smuggling across borders *v.* to find or recognize something, especially something difficult to see, hear, etc.
8. ex\_\_\_\_ge rate *v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
9. ig\_\_\_\_e a ban *v.* to intentionally not listen or pay attention to

ANSWERS: 1. spatial, 2. medical, 3. exploit, 4. spectrum, 5. demonstrator, 6. mention, 7. detect, 8. exchange, 9. ignore

10. he\_\_\_\_\_ht adjustment *n.* a bright forward-facing light on a vehicle, typically used at night to illuminate the road ahead
11. high imp\_\_\_\_\_ce *n.* the quality of being important and worthy of note
12. im\_\_\_\_\_ry pregnancy *adj.* existing only in someone's mind
13. co\_\_\_\_\_e augmented reality *v.* to join or merge to form a single thing or group
14. es\_\_\_\_\_al commodities of life *adj.* indispensable; fundamental
15. tr\_\_\_\_\_it the disease *v.* to send or forward an electronic signal; to pass something from one person or thing to another
16. ill\_\_\_\_\_te my understanding *v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
17. musical ins\_\_\_\_\_nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
18. be\_\_\_\_\_h contempt *adv.* in or to a lower place than someone or something
19. ce\_\_\_\_\_g light *n.* a room's top interior surface
20. a tra\_\_\_\_\_er of a family line *n.* a piece of equipment used for generating and sending electronic signals, especially radio or television signals
21. env\_\_\_\_\_nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live

ANSWERS: 10. headlight, 11. importance, 12. imaginary, 13. combine, 14. essential, 15. transmit, 16. illuminate, 17. instrument, 18. beneath, 19. ceiling, 20. transmitter, 21. environment

22. a su\_\_\_e poison *adj.* not readily apparent or visible
23. have an in\_\_\_\_\_nt dislike *adj.* existing in something as a permanent, essential, or characteristic attribute
24. in\_\_\_\_\_pt X rays *v.* to stop and catch someone or something to prevent them from continuing to a destination
25. fla\_\_\_\_\_ht beam *n.* a portable electric light with a handle and a switch that can be turned on and off
26. 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
27. infrared sp\_\_\_\_\_um *n.* an ordered array of colors into which a light beam can be split
28. inc\_\_\_\_\_ent emotion *adj.* emitting light as a result of being heated; shining brightly; passionate or enthusiastic
29. in\_\_\_\_\_te both businesses *v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups
30. de\_\_\_y troops for battle *v.* to move troops or weapons into a position or military action; to bring into something in an effective way

ANSWERS: 22. subtle, 23. inherent, 24. intercept, 25. flashlight, 26. process, 27. spectrum, 28. incandescent, 29. integrate, 30. deploy

31. fun\_\_\_\_\_al rights *adj.* forming an essential base or core from which everything else develops or is affected
32. aid re\_\_\_\_\_er *n.* the part of a phone that you hold close to your ear and mouth; a person who receives something
33. re\_\_\_\_\_e one word with another *v.* to take the place of something
34. log ca\_\_n *n.* a small, simple dwelling or shelter, typically made of wood and located in a remote or rural area; an enclosed compartment or area within a larger structure, such as an aircraft or ship, where passengers or crew members can sit or sleep
35. 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
36. 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
37. a GPS re\_\_\_\_\_er *n.* the part of a phone that you hold close to your ear and mouth; a person who receives something
38. in\_\_\_\_\_te into the existing system *v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups

ANSWERS: 31. fundamental, 32. receiver, 33. replace, 34. cabin, 35. infrared, 36. beam, 37. receiver, 38. integrate



39. sc\_\_\_e resources *adj.* not abundant or plentiful, and therefore not easy to find or obtain
40. sp\_\_k his interest *v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity
41. ine\_\_\_\_\_nt use *adj.* lacking the ability or skill and not making the best use of time, money, energy, etc.
42. mu\_\_\_\_\_ly about hundredfold *v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
43. marginal ut\_\_\_\_\_y *n.* the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public
44. a co\_\_\_\_\_nt temperature *adj.* happening repeatedly or all the time
45. an imp\_\_\_\_\_ve array of facts *adj.* arousing admiration due to size, quality, or skill
46. sp\_\_t a reward equally *v.* to divide, or to make something divide into two or more parts, especially along a particular line
47. tracking de\_\_\_e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
48. ult\_\_\_\_\_et protection *adj.* relating to or occupying the part of the spectrum beyond the violet end, especially radiation

ANSWERS: 39. scarce, 40. spark, 41. inefficient, 42. multiply, 43. utility, 44. constant, 45. impressive, 46. split, 47. device, 48. ultraviolet

49. the ground be\_\_\_\_\_h my feet *adv.* in or to a lower place than someone or something
50. an ill\_\_\_\_\_ing answer *adj.* making something clear or easy to understand; providing light
51. an ai\_\_\_\_\_ft landing *n.* any vehicle that can fly and carry things or passengers, such as a plane or helicopter
52. co\_\_\_\_\_t fat into energy *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
53. in\_\_\_\_\_l a chairperson *v.* to fix furniture, a machine, or a piece of equipment into position so that it can be used; put into an office or a position
54. I don't care a c\_\_p *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
55. ex\_\_\_\_\_ge a few friendly words *v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
56. ca\_\_n crew *n.* a small, simple dwelling or shelter, typically made of wood and located in a remote or rural area; an enclosed compartment or area within a larger structure, such as an aircraft or ship, where passengers or crew members can sit or sleep

ANSWERS: 49. beneath, 50. illuminating, 51. aircraft, 52. convert, 53. install, 54. chip, 55. exchange, 56. cabin

57. a co\_\_\_\_nt wind *adj.* happening repeatedly or all the time
58. ill\_\_\_\_\_te a dark hall *v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
59. a man of imp\_\_\_\_\_ce *n.* the quality of being important and worthy of note
60. ce\_\_\_\_\_ar and molecular biology *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
61. mo\_\_\_\_\_te from one key to another *v.* to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something
62. int\_\_\_\_\_lly motivated *adv.* from the inherent nature or quality of something or arising from within
63. pet\_\_\_\_\_cal complex *n.* a chemical compound derived from petroleum or natural gas, used as a raw material in the manufacture of plastics, synthetic fibers, and other products
64. a house with m\_d cons *n.* a modification or alteration, typically one made to improve something or increase its functionality; a British teenager or young adult in the 1960s, noted for their clothes consciousness and opposition to the rockers
65. ga\_\_a radiation *n.* the third letter of the Greek alphabet; a type of radiation having the shortest wavelength and highest energy of electromagnetic waves

ANSWERS: 57. constant, 58. illuminate, 59. importance, 60. cellular, 61. modulate, 62. intrinsically, 63. petrochemical, 64. mod, 65. gamma

66. com\_\_\_\_\_te well with my advisor      *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
67. wi\_\_\_\_\_ss access      *adj.* of or relating a connection or communication that does not require a physical wire or cable, often through the use of radio waves or electromagnetic signals
68. 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
69. indirect ill\_\_\_\_\_ion      *n.* light or source of light; the degree of visibility of your environment
70. in\_\_\_\_\_pt an enemy force      *v.* to stop and catch someone or something to prevent them from continuing to a destination
71. ele\_\_\_\_\_tic radiation      *adj.* of or relating to the magnetism produced by electric charge in motion
72. cause an ac\_\_\_\_\_nt      *n.* an unfortunate event, especially one causing damage or injury
73. com\_\_\_\_\_te his anxieties to the psychiatrist      *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
74. re\_\_\_\_\_e a phone      *v.* to take the place of something
75. a prodigious vi\_\_\_\_\_n      *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
76. ult\_\_\_\_\_et light      *adj.* relating to or occupying the part of the spectrum beyond the violet end, especially radiation

ANSWERS: 66. communicate, 67. wireless, 68. beam, 69. illumination, 70. intercept, 71. electromagnetic, 72. accident, 73. communicate, 74. replace, 75. vision, 76. ultraviolet

77. es\_\_\_\_\_al amino acid *adj.* indispensable; fundamental
78. fi\_\_\_\_\_ty guarantee deposit *n.* faithfulness to a person, cause, or thing; loyalty or devotion to a duty or obligation; accuracy or exactness in reproducing or representing something
79. the def\_\_\_\_\_on of a word *n.* a concise explanation of the meaning of a word, phrase, or symbol
80. f\_\_e their homes *v.* to leave by running away, especially out of fear or danger
81. flow of el\_\_\_\_\_ons *n.* a tiny particle with the negative electrical charge
82. 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
83. de\_\_\_y safety measures *v.* to move troops or weapons into a position or military action; to bring into something in an effective way
84. electronic de\_\_\_e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
85. a ce\_\_\_\_\_ar phone handset *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
86. de\_\_\_t a bad event *v.* to find or recognize something, especially something difficult to see, hear, etc.

ANSWERS: 77. essential, 78. fidelity, 79. definition, 80. flee, 81. electron, 82. efficient, 83. deploy, 84. device, 85. cellular, 86. detect

87. mu\_\_\_\_ly 5 and 6                    *v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
88. art cr\_\_\_\_c                        *n.* someone who expresses opinions about the quality of books, music, etc.
89. an endless st\_\_\_\_m of cars                    *n.* a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.
90. el\_\_\_\_fy a manufacturing process                    *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
91. tr\_\_\_\_c jam                        *n.* the movement of vehicles, people, or goods along a route or through a transport system; the amount of such movement in a particular place or at a particular time
92. d\_m and distant past                    *adj.* poorly lit; not bright
93. extend the TV an\_\_\_\_a                    *n.* an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects
94. field of fun\_\_\_\_al medicine                    *adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
95. historical co\_\_\_\_t                    *n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning

ANSWERS: 87. multiply, 88. critic, 89. stream, 90. electrify, 91. traffic, 92. dim, 93. antenna, 94. functional, 95. context

96. ac\_\_e triangle *adj.* extremely sharp or severe
97. better fuel eff\_\_\_\_\_cy *n.* the state or quality of doing something well with no waste of input such as time or money
98. develop in\_\_\_\_\_e itching *adj.* (especially of a feeling) very strong; extremely sharp or severe
99. heavy tr\_\_\_\_\_c *n.* the movement of vehicles, people, or goods along a route or through a transport system; the amount of such movement in a particular place or at a particular time
100. vi\_\_\_\_\_e stars *adj.* capable of being seen; or open to easy view
101. telescopic vi\_\_\_\_n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
102. f\_\_e abroad *v.* to leave by running away, especially out of fear or danger
103. ex\_\_\_\_\_t a valuable opportunity *v.* to make full use of and gain an advantage from resources, opportunities, etc.
104. ine\_\_\_\_\_nt management *adj.* lacking the ability or skill and not making the best use of time, money, energy, etc.
105. de\_\_\_e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
106. av\_\_l you little *v.* to help or benefit; to use or take advantage of

ANSWERS: 96. acute, 97. efficiency, 98. intense, 99. traffic, 100. visible, 101. vision, 102. flee, 103. exploit, 104. inefficient, 105. decide, 106. avail

107. sp\_\_t a bill  
*v.* to divide, or to make something divide into two or more parts, especially along a particular line
108. el\_\_\_\_\_fy the audience  
*v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
109. 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
110. su\_\_\_e changes  
*adj.* not readily apparent or visible
111. high am\_\_\_\_\_de  
*n.* the extent or magnitude of something; the volume or intensity of a sound wave or signal
112. deep su\_\_\_n  
*n.* a darkening of the skin due to exposure to the sun, often as a result of deliberate sunbathing or outdoor activities with prolonged exposure to bright sunlight
113. ga\_\_a particles  
*n.* the third letter of the Greek alphabet; a type of radiation having the shortest wavelength and highest energy of electromagnetic waves
114. co\_\_\_\_\_t base 10 to base 16  
*v.* to have a talk with someone; (adjective) reversed in order, relation, or action
115. tr\_\_\_\_\_it information  
*v.* to send or forward an electronic signal; to pass something from one person or thing to another

ANSWERS: 107. split, 108. electrify, 109. efficient, 110. subtle, 111. amplitude, 112. suntan, 113. gamma, 114. convert, 115. transmit



116. eff\_\_\_\_\_ent crystals *adj.* relating to the process of flowering or blooming; characterized by the formation of a powdery or crystalline deposit on the surface of a material due to the evaporation of water or other solvents
117. capital-sc\_\_\_e country *adj.* not abundant or plentiful, and therefore not easy to find or obtain
118. industrial sy\_\_\_\_\_is *n.* a close, prolonged association between two or more different species of organisms, typically to the advantage of all
119. a precise def\_\_\_\_\_on *n.* a concise explanation of the meaning of a word, phrase, or symbol
120. in\_\_\_\_\_on behind his decision *n.* something you want to do and are going to do
121. surgical ins\_\_\_\_\_nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
122. ac\_\_\_\_\_ic probation *adj.* associated with schools, colleges, and universities, especially studying and thinking, not with practical skills
123. ut\_\_\_\_\_y costs *n.* the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public
124. an\_\_\_\_\_a of insect *n.* an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects

ANSWERS: 116. efflorescent, 117. scarce, 118. symbiosis, 119. definition, 120. intention, 121. instrument, 122. academic, 123. utility, 124. antenna

125. ex\_\_\_d time and resources      *v.* to use or spend time, money, energy, etc.
126. radio tra\_\_\_\_\_er      *n.* a piece of equipment used for generating and sending electronic signals, especially radio or television signals
127. a c\_\_p of wood      *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
128. av\_\_l ourselves of this opportunity      *v.* to help or benefit; to use or take advantage of
129. fun\_\_\_\_\_al education      *adj.* forming an essential base or core from which everything else develops or is affected
130. sl\_\_e a glance      *v.* to move or cause to move smoothly along a surface without interruption
131. tra\_\_\_\_\_ion speed      *n.* the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television
132. co\_\_\_\_\_e a large of alcohol      *v.* to spend something, especially fuel, energy, or time, in a large amount
133. or\_\_\_\_\_y annual revenue      *adj.* not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree
134. co\_\_\_\_\_e electricity      *v.* to spend something, especially fuel, energy, or time, in a large amount
135. an ac\_\_\_\_\_ic discussion      *adj.* associated with schools, colleges, and universities, especially studying and thinking, not with practical skills

ANSWERS: 125. expend, 126. transmitter, 127. chip, 128. avail, 129. fundamental, 130. slide, 131. transmission, 132. consume, 133. ordinary, 134. consume, 135. academic

136. a pa\_\_\_\_el case *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
137. inc\_\_\_\_ent personality *adj.* emitting light as a result of being heated; shining brightly; passionate or enthusiastic
138. muscle am\_\_\_\_de *n.* the extent or magnitude of something; the volume or intensity of a sound wave or signal
139. the tra\_\_\_\_ion gears of a car *n.* the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television
140. 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
141. 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
142. severe cr\_\_\_\_c *n.* someone who expresses opinions about the quality of books, music, etc.
143. wet-b\_\_b thermometer *n.* a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball

ANSWERS: 136. parallel, 137. incandescent, 138. amplitude, 139. transmission, 140. infrared, 141. process, 142. critic, 143. bulb

144. a man of pr\_\_\_\_ty *n.* a thing or things that belong to someone
145. inf\_\_\_\_\_ure cost *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
146. clear in\_\_\_\_\_on *n.* something you want to do and are going to do
147. high fi\_\_\_\_\_ty music *n.* faithfulness to a person, cause, or thing; loyalty or devotion to a duty or obligation; accuracy or exactness in reproducing or representing something
148. an energy eff\_\_\_\_\_cy *n.* the state or quality of doing something well with no waste of input such as time or money
149. degree in ele\_\_\_\_\_al engineering *adj.* relating to electricity
150. fla\_\_\_\_\_ht batteries *n.* a portable electric light with a handle and a switch that can be turned on and off
151. co\_\_\_\_\_e chemically with another substance *v.* to join or merge to form a single thing or group
152. the st\_\_\_\_m of time *n.* a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.
153. pa\_\_\_\_\_el processing *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations

ANSWERS: 144. property, 145. infrastructure, 146. intention, 147. fidelity, 148. efficiency, 149. electrical, 150. flashlight, 151. combine, 152. stream, 153. parallel

154. m\_d culture *n.* a modification or alteration, typically one made to improve something or increase its functionality; a British teenager or young adult in the 1960s, noted for their clothes consciousness and opposition to the rockers
155. int\_\_\_\_\_lly valuable *adv.* from the inherent nature or quality of something or arising from within
156. chaotic env\_\_\_\_\_nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
157. me\_\_\_\_\_n in a report *v.* to speak or write about something or someone briefly
158. eff\_\_\_\_\_ent growth *adj.* relating to the process of flowering or blooming; characterized by the formation of a powdery or crystalline deposit on the surface of a material due to the evaporation of water or other solvents
159. built-up m\_\_t *n.* a long pole aboard a boat or ship that holds up the sails
160. in\_\_\_\_\_e heat *adj.* (especially of a feeling) very strong; extremely sharp or severe
161. sp\_\_k a chain reaction *v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity
162. pe\_\_\_\_\_te a cell *v.* to pass into or through something, often by overcoming resistance
163. an ele\_\_\_\_\_al storm *adj.* relating to electricity

ANSWERS: 154. mod, 155. intrinsically, 156. environment, 157. mention, 158. efflorescent, 159. mast, 160. intense, 161. spark, 162. penetrate, 163. electrical

164. opaque to X-r\_ys *n.* a narrow line of light, heat, or another form of energy
165. de\_\_\_e on a course of action *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
166. 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
167. ele\_\_\_\_\_tic properties *adj.* of or relating to the magnetism produced by electric charge in motion
168. an or\_\_\_\_\_ry school *adj.* not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree
169. sl\_\_e a card across the table *v.* to move or cause to move smoothly along a surface without interruption
170. 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
171. ill\_\_\_\_\_ing light *adj.* making something clear or easy to understand; providing light
172. vi\_\_\_\_\_e by X-ray *adj.* capable of being seen; or open to easy view
173. fun\_\_\_\_\_al deafness *adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
174. pet\_\_\_\_\_cal plant *n.* a chemical compound derived from petroleum or natural gas, used as a raw material in the manufacture of plastics, synthetic fibers, and other products

ANSWERS: 164. ray, 165. decide, 166. byte, 167. electromagnetic, 168. ordinary, 169. slide, 170. byte, 171. illuminating, 172. visible, 173. functional, 174. petrochemical

175. sp\_\_\_\_l ability *adj.* of or relating space and the position, area, and size of things
176. ac\_\_e pain *adj.* extremely sharp or severe
177. effect of cosmic r\_ys *n.* a narrow line of light, heat, or another form of energy
178. chemical pr\_\_\_\_ty *n.* a thing or things that belong to someone
179. beam of el\_\_\_\_ons *n.* a tiny particle with the negative electrical charge
180. temporary me\_\_\_\_l treatment *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
181. injury in a car ac\_\_\_\_nt *n.* an unfortunate event, especially one causing damage or injury
182. a lily b\_\_b *n.* a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball
183. sem\_\_\_\_\_tor device *n.* a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices
184. imp\_\_\_\_\_ve performances *adj.* arousing admiration due to size, quality, or skill
185. pe\_\_\_\_\_te quickly into the skin *v.* to pass into or through something, often by overcoming resistance
186. in\_\_\_\_nt risk *adj.* existing in something as a permanent, essential, or characteristic attribute

ANSWERS: 175. spatial, 176. acute, 177. ray, 178. property, 179. electron, 180. medical, 181. accident, 182. bulb, 183. semiconductor, 184. impressive, 185. penetrate, 186. inherent

187. wi\_\_\_\_\_ss charging *adj.* of or relating a connection or communication that does not require a physical wire or cable, often through the use of radio waves or electromagnetic signals
188. ce\_\_\_\_\_g board *n.* a room's top interior surface
189. ai\_\_\_\_\_ft control system *n.* any vehicle that can fly and carry things or passengers, such as a plane or helicopter
190. 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
191. mo\_\_\_\_\_te the function *v.* to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something
192. in\_\_\_\_\_l a door *v.* to fix furniture, a machine, or a piece of equipment into position so that it can be used; put into an office or a position
193. ex\_\_\_\_d a great deal of energy *v.* to use or spend time, money, energy, etc.
194. m\_\_t height *n.* a long pole aboard a boat or ship that holds up the sails
195. peaceful dem\_\_\_\_\_tor *n.* a person who publicly advocates for or protests against a particular cause, often in a group or a public space

ANSWERS: 187. wireless, 188. ceiling, 189. aircraft, 190. develop, 191. modulate, 192. install, 193. expend, 194. mast, 195. demonstrator



196. starry ill\_\_\_\_\_ion *n.* light or source of light; the degree of visibility of your environment
197. su\_\_\_n bed *n.* a darkening of the skin due to exposure to the sun, often as a result of deliberate sunbathing or outdoor activities with prolonged exposure to bright sunlight
198. d\_m memory *adj.* poorly lit; not bright
199. sy\_\_\_\_\_is establishment *n.* a close, prolonged association between two or more different species of organisms, typically to the advantage of all
200. 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
201. X-\_\_y scan *n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed
202. ig\_\_\_e her advice *v.* to intentionally not listen or pay attention to
203. IT inf\_\_\_\_\_ure *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies

ANSWERS: 196. illumination, 197. suntan, 198. dim, 199. symbiosis, 200. develop, 201. X-ray, 202. ignore, 203. infrastructure

204. an X-\_\_y of arteries      *n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed
205. legal co\_\_\_\_t      *n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning
206. he\_\_\_\_\_ht switch      *n.* a bright forward-facing light on a vehicle, typically used at night to illuminate the road ahead
207. im\_\_\_\_\_ry number      *adj.* existing only in someone's mind
208. sem\_\_\_\_\_tor industry      *n.* a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices

ANSWERS: 204. X-ray, 205. context, 206. headlight, 207. imaginary, 208. semiconductor

## Session 3: Fill in the Blanks

1. 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
  
2. \_\_\_\_\_ rays are a type of high-energy radiation that can be harmful to living organisms.
  - n.* the third letter of the Greek alphabet; a type of radiation having the shortest wavelength and highest energy of electromagnetic waves
  
3. The \_\_\_\_\_ of the device was immediately apparent to all who saw it.
  - n.* the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public
  
4. The \_\_\_\_\_ between the coral and the algae is an important example of mutualism.
  - n.* a close, prolonged association between two or more different species of organisms, typically to the advantage of all
  
5. Human behavior has \_\_\_\_\_ characteristics.
  - adj.* forming an essential base or core from which everything else develops or is affected
  
6. The system is still so \_\_\_\_\_ that it is useless.
  - adj.* lacking the ability or skill and not making the best use of time, money, energy, etc.

ANSWERS: 1. develop, 2. Gamma, 3. utility, 4. symbiosis, 5. fundamental, 6. inefficient

7. The skylight will give adequate \_\_\_\_\_ from above.  
*n.* light or source of light; the degree of visibility of your environment
8. 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
9. We \_\_\_\_\_ our mining resources to strengthen our national power.  
*v.* to make full use of and gain an advantage from resources, opportunities, etc.
10. Western ideology slowly \_\_\_\_\_ through the eastern countries.  
*v.* to pass into or through something, often by overcoming resistance
11. The security camera has \_\_\_\_\_ four intruders.  
*v.* to find or recognize something, especially something difficult to see, hear, etc.
12. 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
13. 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
14. \_\_\_\_\_ radiation can cause skin damage if one is exposed for too long.  
*adj.* relating to or occupying the part of the spectrum beyond the violet end, especially radiation

ANSWERS: 7. illumination, 8. beam, 9. exploit, 10. penetrates, 11. detected, 12. process, 13. transmit, 14. Ultraviolet

15. Honesty is an \_\_\_\_\_ quality that everyone should strive to possess.  
*adj.* existing in something as a permanent, essential, or characteristic attribute
16. Little children tend to have \_\_\_\_\_ friends.  
*adj.* existing only in someone's mind
17. Billionaires tend to \_\_\_\_\_ private funds on a public undertaking.  
*v.* to use or spend time, money, energy, etc.
18. He stood to inherit a million-dollar \_\_\_\_\_.  
*n.* a thing or things that belong to someone
19. Companies often \_\_\_\_\_ their shares to lower the stock price and encourage investors to buy.  
*v.* to divide, or to make something divide into two or more parts, especially along a particular line
20. My home is easily \_\_\_\_\_ from the shore.  
*adj.* capable of being seen; or open to easy view
21. If necessary, you can \_\_\_\_\_ the front seats forward.  
*v.* to move or cause to move smoothly along a surface without interruption
22. The new president was \_\_\_\_\_ immediately after the national election.  
*v.* to fix furniture, a machine, or a piece of equipment into position so that it can be used; put into an office or a position
23. It is a basic instinct to \_\_\_\_\_ from a dangerous situation.  
*v.* to leave by running away, especially out of fear or danger

ANSWERS: 15. inherent, 16. imaginary, 17. expend, 18. property, 19. split, 20. visible, 21. slide, 22. installed, 23. flee

24. The light \_\_\_\_\_ has burned out.

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

25. He carefully determined the \_\_\_\_\_ relations of every piece of the stage set.

*adj.* of or relating space and the position, area, and size of things

26. The artist's \_\_\_\_\_ paintings were featured in the gallery's exhibition.

*adj.* relating to the process of flowering or blooming; characterized by the formation of a powdery or crystalline deposit on the surface of a material due to the evaporation of water or other solvents

27. The \_\_\_\_\_ partially destroyed my vehicle.

*n.* an unfortunate event, especially one causing damage or injury

28. Our CEO's \_\_\_\_\_ are always transparent and straightforward.

*n.* something you want to do and are going to do

29. Advocates for legal reform hear less harsh words from their \_\_\_\_\_.

*n.* someone who expresses opinions about the quality of books, music, etc.

30. The doctor ordered an \_\_\_\_\_ to see if there was any damage to the bones.

*n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed

31. That statement by the prime minister drew \_\_\_\_\_ international criticism.

*adj.* (especially of a feeling) very strong; extremely sharp or severe

ANSWERS: 24. bulb, 25. spatial, 26. efflorescent, 27. accident, 28. intentions, 29. critics, 30. X-ray, 31. intense

32. The \_\_\_ light made it difficult to read the book.

*adj.* poorly lit; not bright

33. This country \_\_\_\_\_ its weapons in the east region.

*v.* to move troops or weapons into a position or military action; to bring into something in an effective way

34. The kindness of strangers is \_\_\_\_\_ rewarding, even when no reward is expected.

*adv.* from the inherent nature or quality of something or arising from within

35. It is illegal to \_\_\_\_\_ police radio.

*v.* to stop and catch someone or something to prevent them from continuing to a destination

36. This device displayed the speech \_\_\_\_\_ spectrographically.

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

37. The product developed through years of research continues to \_\_\_\_\_ the market.

*v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

38. The mobile phone was still \_\_\_\_\_ even after being dropped.

*adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service

39. Our company must continue to strive for greater \_\_\_\_\_.

*n.* the state or quality of doing something well with no waste of input such as time or money

ANSWERS: 32. dim, 33. deployed, 34. intrinsically, 35. intercept, 36. spectrum, 37. electrify, 38. functional, 39. efficiency

40. Parallel lines are, by \_\_\_\_\_ lines on the same plane that never cross.  
*n.* a concise explanation of the meaning of a word, phrase, or symbol
41. 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
42. He found that it is difficult to \_\_\_\_\_ socially.  
*v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups
43. The \_\_\_ for the video game added new features and improved gameplay.  
*n.* a modification or alteration, typically one made to improve something or increase its functionality; a British teenager or young adult in the 1960s, noted for their clothes consciousness and opposition to the rockers
44. I always carry a backup \_\_\_\_\_ in case my phone runs out of battery.  
*n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
45. We can use this campaign as a bargaining \_\_\_\_\_ in the negotiations.  
*n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
46. I \_\_\_\_\_ to him that I had seen his sister at the grocery store earlier that day.  
*v.* to speak or write about something or someone briefly
47. 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

ANSWERS: 40. definition, 41. efficient, 42. integrate, 43. mod, 44. device, 45. chip, 46. mentioned, 47. infrared



48. I spent the day at the beach and got a beautiful \_\_\_\_\_.
- n.* a darkening of the skin due to exposure to the sun, often as a result of deliberate sunbathing or outdoor activities with prolonged exposure to bright sunlight
49. The bankruptcy of the giant conglomerate \_\_\_\_\_ turmoil in the stock market.
- v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity
50. Aging societies tend to require huge costs for \_\_\_\_\_ maintenance.
- n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
51. Trial and error is an \_\_\_\_\_ part of education.
- adj.* indispensable; fundamental
52. Every human is responsible for taking care of the Earth's \_\_\_\_\_.
- n.* the natural world such as air, water, and land in which humans, animals, and plants live
53. I want to \_\_\_\_\_ my sadness into strength.
- v.* to have a talk with someone; (adjective) reversed in order, relation, or action
54. Gamma \_\_\_\_\_ penetrate body tissues and cause cell damage.
- n.* a narrow line of light, heat, or another form of energy
55. The lecture was \_\_\_\_\_ and gave me a new perspective on the topic.
- adj.* making something clear or easy to understand; providing light

ANSWERS: 48. suntan, 49. sparked, 50. infrastructure, 51. essential, 52. environment, 53. convert, 54. rays, 55. illuminating

56. He used a backup \_\_\_\_\_ to find his way through the dark cave.  
*n.* a portable electric light with a handle and a switch that can be turned on and off
57. This factory employs a \_\_\_\_\_ manufacturing system.  
*adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
58. The main cabin is located in front of the \_\_\_\_\_.  
*n.* a long pole aboard a boat or ship that holds up the sails
59. The police gathered in large numbers to control the \_\_\_\_\_ protesting in the streets.  
*n.* a person who publicly advocates for or protests against a particular cause, often in a group or a public space
60. These chemicals \_\_\_\_\_ the effect of metabolism.  
*v.* to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something
61. Since independence, the area has been completely \_\_\_\_\_.  
*v.* to intentionally not listen or pay attention to
62. The town's economy relies heavily on the \_\_\_\_\_ industry.  
*n.* a chemical compound derived from petroleum or natural gas, used as a raw material in the manufacture of plastics, synthetic fibers, and other products
63. \_\_\_\_\_ a number by itself twice.  
*v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity

ANSWERS: 56. flashlight, 57. cellular, 58. mast, 59. demonstrators, 60. modulate, 61. ignored, 62. petrochemical, 63. Multiply

64. I stopped by the branch though I have no business of \_\_\_\_\_.
- n.* the quality of being important and worthy of note
65. My sister and I frequently \_\_\_\_\_ books, as we love reading.
- v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
66. The marine \_\_\_\_\_ manufacturer demonstrated their newest hydroplane.
- n.* any vehicle that can fly and carry things or passengers, such as a plane or helicopter
67. Hydrogen and oxygen \_\_\_\_\_ to form water.
- v.* to join or merge to form a single thing or group
68. The \_\_\_\_\_ lights in the room created a warm and inviting atmosphere.
- adj.* emitting light as a result of being heated; shining brightly; passionate or enthusiastic
69. The \_\_\_\_\_ team worked quickly to save the patient's life.
- adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
70. The quaint \_\_\_\_\_ in the woods was the perfect retreat for a weekend getaway.
- n.* a small, simple dwelling or shelter, typically made of wood and located in a remote or rural area; an enclosed compartment or area within a larger structure, such as an aircraft or ship, where passengers or crew members can sit or sleep
71. 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

ANSWERS: 64. importance, 65. exchange, 66. aircraft, 67. combine, 68. incandescent, 69. medical, 70. cabin, 71. bytes

72. He had a special \_\_\_\_\_ for public relations
- n.* an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects
73. We decided to take a detour to avoid the construction \_\_\_\_\_ on the main road.
- n.* the movement of vehicles, people, or goods along a route or through a transport system; the amount of such movement in a particular place or at a particular time
74. His hypothesis concerns the role of an \_\_\_\_\_ field in human health.
- adj.* of or relating to the magnetism produced by electric charge in motion
75. That biologist \_\_\_\_\_ the mechanism of heredity.
- v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
76. This substance acts as a neural \_\_\_\_\_ substance.
- n.* a piece of equipment used for generating and sending electronic signals, especially radio or television signals
77. An excellent historian must possess an \_\_\_\_\_ mentality.
- adj.* associated with schools, colleges, and universities, especially studying and thinking, not with practical skills
78. The budget reduction was an \_\_\_\_\_ feat for our nation.
- adj.* arousing admiration due to size, quality, or skill
79. Their financing options are reasonable and easy to \_\_\_\_\_.
- v.* to help or benefit; to use or take advantage of

ANSWERS: 72. antenna, 73. traffic, 74. electromagnetic, 75. illuminated, 76. transmitter, 77. academic, 78. impressive, 79. avail

80. The \_\_\_\_\_ session of the Diet opened.

*adj.* not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree

81. A great stretch of the lake lay \_\_\_\_\_ them.

*adv.* in or to a lower place than someone or something

82. Eventually, the new design will \_\_\_\_\_ all older models.

*v.* to take the place of something

83. The outermost \_\_\_\_\_ shell determines the chemical properties of an atom.

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

84. \_\_\_\_\_ dropping wears away the stone.

*adj.* happening repeatedly or all the time

85. He walked a road \_\_\_\_\_ to the railroad.

*adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations

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

*adj.* relating to electricity

87. It's important to understand the \_\_\_\_\_ of a situation before making a decision.

*n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning

88. This electronic \_\_\_\_\_ is required to undergo periodic inspections to ensure precision.

*n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

ANSWERS: 80. ordinary, 81. beneath, 82. replace, 83. electron, 84. Constant, 85. parallel, 86. electrical, 87. context, 88. instrument

89. She couldn't \_\_\_\_\_ whether to order the pizza or the pasta for dinner.
- v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
90. Jet \_\_\_\_\_ are the common name for air currents that form high in the atmosphere.
- n.* a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.
91. The company develops and sells \_\_\_\_\_ memory for use in computers and servers.
- n.* a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices
92. Driving is difficult for me because of my poor \_\_\_\_\_.
- n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
93. The couple promised each other \_\_\_\_\_ in their marriage vows.
- n.* faithfulness to a person, cause, or thing; loyalty or devotion to a duty or obligation; accuracy or exactness in reproducing or representing something
94. Education is the \_\_\_\_\_ of civilization.
- n.* the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television
95. Fresh water is becoming increasingly \_\_\_\_\_ in many parts of the world.
- adj.* not abundant or plentiful, and therefore not easy to find or obtain
96. The \_\_\_\_\_ of the sound waves determines the volume of the music.
- n.* the extent or magnitude of something; the volume or intensity of a sound wave or signal

ANSWERS: 89. decide, 90. streams, 91. semiconductor, 92. vision, 93. fidelity, 94. transmission, 95. scarce, 96. amplitude

97. There was a crack in the \_\_\_\_\_ that I found.

*n.* a room's top interior surface

98. The patient died from \_\_\_\_\_ alcohol intoxication.

*adj.* extremely sharp or severe

99. A smaller car will \_\_\_\_\_ less fuel.

*v.* to spend something, especially fuel, energy, or time, in a large amount

100. Delivery companies often require the \_\_\_\_\_ signature to certify the completion of package delivery.

*n.* the part of a phone that you hold close to your ear and mouth; a person who receives something

101. My car's \_\_\_\_\_ must be replaced before I drive again at night.

*n.* a bright forward-facing light on a vehicle, typically used at night to illuminate the road ahead

102. The office's \_\_\_\_\_ network allows employees to work from anywhere in the building.

*adj.* of or relating a connection or communication that does not require a physical wire or cable, often through the use of radio waves or electromagnetic signals

103. Dolphins use sound to \_\_\_\_\_ with each other.

*v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals

104. A famous artist painted the room in a \_\_\_\_\_ pink hue.

*adj.* not readily apparent or visible

ANSWERS: 97. ceiling, 98. acute, 99. consume, 100. receiver's, 101. headlight, 102. wireless, 103. communicate, 104. subtle

ANSWERS: