

# Englist.me



## Vocabulary Builder Reference from...

*José Américo N L F de Freitas: How exactly does binary code work? | TED Talk*

[https://www.ted.com/talks/jose\\_americano\\_n\\_l\\_f\\_de\\_freitas\\_how\\_exactly\\_does\\_binary\\_code\\_work](https://www.ted.com/talks/jose_americano_n_l_f_de_freitas_how_exactly_does_binary_code_work)

### All Words

#### IMPORTANT

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## Session 1: Word List

### 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.

### binary

*n.* a system of numbers that uses only two digits, 0 and 1

*synonym* : twofold, double

(1) a **binary** number, (2) trading in **binary** options

A **binary** star is a system in which two stars revolve around each other.

### reliable

*adj.* worthy of being relied on; trustworthy

*synonym* : dependable, trustworthy, dedicated

(1) **reliable** access, (2) guarantee **reliable** delivery

Trains are **reliable**, inexpensive, and ideal for long-distance travel.

### transistor

*n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics

*synonym* : semiconductor, microchip, circuit

(1) **transistor** radio, (2) **transistor** circuit

The invention of the **transistor** revolutionized the field of electronics.

## voltage

*n.* the difference in the force of an electric current between two points

(1) the **voltage** spiked, (2) low **voltage**

Connecting batteries in series increase the **voltage** of the circuit.

## volt

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

*synonym* : electric potential, V

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

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

## oscillate

*v.* to swing or move back and forth like a pendulum or a wave; to fluctuate or alternate between two points or states; to hesitate or be indecisive

*synonym* : fluctuate, swing, vibrate

(1) **oscillate** back and forth, (2) **oscillate** between joy and anger

The fan in the room **oscillates**, making the airflow more evenly.

## 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.

## software

*n.* a set of computer programs and associated documentation and data for doing particular computational jobs

*synonym*: program, system, operating system

(1) **software** architect, (2) copyrighted **software**

The company specializes in both hardware and **software**.

## instruction

*n.* detailed direction, order, etc., on how to do or use something

*synonym*: education, direction, guidance

(1) individual **instruction**, (2) follow his **instructions**

They needed further **instruction** to perform their duties efficiently.

## genius

*n.* someone who has exceptional intellectual ability and originality

*synonym*: brilliance, brainiac, acumen

(1) a person of **genius**, (2) a **genius** for music

Mozart was a musical **genius**.

## 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.

## predetermine

*v.* to decide or determine in advance; to establish or influence beforehand

*synonym*: determine in advance, predestine, decide beforehand

(1) **predetermine** effectiveness, (2) **predetermine** result

I can't **predetermine** the game's outcome, and anything can happen.

## encode

v. to convert information into a code or format suitable for storage or transmission

*synonym*: transcribe, convert

(1) **encode** data, (2) **encode** information

The software can **encode** and decode encrypted messages.

## 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.

## norm

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

*synonym*: criterion, mean, standard

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

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

## decimal

*adj.* based on or counted in the number 10

*synonym*: base-10, denary, ten-based

(1) **decimal** system, (2) an infinite **decimal**

The **decimal** point separates the whole number from the fractional part.

## digit

n. one of the elements that collectively form a system of numeration; a finger, thumb, or toe

*synonym*: number, integer, numeral

(1) **digit** identifier, (2) the **digit** in the hundreds place

We must enter a six- **digit** number to unlock the safe.

## 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.

**similarly**

*adv.* in almost the same way

*synonym* : also, likewise, ditto

(1) **similarly** situated, (2) have **similarly** great abilities

We argue that wages for temporary workers should **similarly** rise.

**interpret**

*v.* to explain or assign the meaning of information, actions, etc.

*synonym* : decode, decipher, analyze

(1) **interpret** a graph, (2) **interpret** the question

Different people might **interpret** this news differently.

**assign**

*v.* to give a specific job or piece of work to a someone

*synonym* : entrust, delegate, designate

(1) **assign** projects, (2) **assign** top priority

Please **assign** a different color to each other kind of item.

**specific**

*adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

*synonym* : particular, definite, distinct

(1) **specific** instructions, (2) industry- **specific** regulations

The scientist conducted a study that provided **specific** details about the species' behavior.

**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.

**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.

## instance

*n.* a particular example or single occurrence of something  
*synonym*: example, sample, illustration

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

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

## suppose

*v.* to think that something is likely to be actual or possible  
*synonym*: guess, assume, presume

(1) **suppose** you're right, (2) **suppose** beforehand

What do you **suppose** the culprit's motive was?

## isolation

*n.* the condition of being alone or lonely; the act or state of separation between persons or groups

*synonym*: aloneness, seclusion, separateness

(1) **isolation** booth, (2) the country's **isolation**

That incident led to his **isolation**.

## 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.

## complexity

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

*synonym*: intricacy, sophistication, elaboration

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

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

## frame

*n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window

*synonym* : body, skeleton, scaffolding

(1) a picture **frame**, (2) the **frame** of the policy

The detective looked for fingerprints on the window **frame**.

## pixel

*n.* the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image

*synonym* : dot, point, picture element

(1) **pixel** density, (2) color **pixels**

The computer screen comprises thousands of tiny **pixels** that create the overall picture.

## 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.

## primary

*adj.* first or highest in rank, order, or importance; most fundamental or essential; pertaining to the initial or introductory stage of something, such as a school year or election cycle

*synonym* : chief, main, fundamental

(1) **primary** school, (2) **primary** education

The **primary** cause of the accident was due to the icy road conditions.

## determinant

*n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

*synonym* : cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

## 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.

## 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.

## liquid

*n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas

*synonym* : fluid

(1) colorless **liquid**, (2) hazardous **liquid**

The sponge takes up the **liquid** well.

## crystal

*n.* a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica

*synonym* : quartz

(1) liquid **crystal**, (2) **crystal** analyses

A vast **crystal** chandelier glittered brightly above us.

## hue

*n.* the quality of a color as determined by its dominant wavelength

*synonym* : dye, tint, coloring

(1) the **hues** of a rainbow, (2) **hue** change

To achieve a warmer **hue**, add orange paint.



## 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.

## pulse

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

*synonym*: beat, vibration, throb

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

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

## 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.

## continuous

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

*synonym*: ceaseless, regular, repeated

(1) **continuous** improvement, (2) a **continuous** row of warehouses

The heavy snow has been **continuous** since last morning.

## snapshot

*n.* an informal photograph, especially one taken quickly

*synonym*: photo, picture, print

(1) take a **snapshot**, (2) developed **snapshot**

There were framed **snapshots** of family and friends in her room.

## 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.

## coil

*v.* to wind something in a spiral or helical shape; to create a coil or coil-like shape; to group or organize something closely together in a circular or spiral pattern

*synonym* : twist, wind, loop

(1) **coil** wire, (2) **coil** an arm

She carefully **coiled** the rope so that it wouldn't tangle.

## vibrate

*v.* to move or cause anything to move fast and in small increments from side to side

*synonym* : oscillate, convulse, jerk

(1) **vibrate** at a regular frequency, (2) **vibrate** with anger

During the flight, the wings of the plane **vibrate**.

## frequency

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

*synonym* : recurrence, repetition, regularity

(1) **frequency** band, (2) high **frequency**

The oscillator hunts for the correct **frequency**.

## compression

*n.* the act or process of pressing or squeezing something together, often using force or pressure; (of physics) the reduction of volume or increase in pressure of a gas or fluid

*synonym* : condensation, squeezing, pressing

(1) **compression** garment, (2) data **compression**

The doctor recommended a **compression** bandage to reduce swelling in the injured area.

## adjacent

*adj.* next to, close to, or adjoining something

*synonym* : next, adjoining, neighboring

(1) **adjacent** to his house, (2) **adjacent** houses

Our country has military alliances with **adjacent** countries.

## compress

*v.* to press or squeeze together to make something take up less space

*synonym*: condense, constrict, squeeze

(1) **compress** the chest, (2) **compress** gas

She **compressed** the files into a single ZIP archive to save space on her computer.

## end-all-be-all

*n.* something or someone that is considered the ultimate, definitive, or most important, often to the exclusion of other perspectives or options

*synonym*: ultimate goal, be-all and end-all, ultimate aim

(1) **end-all-be-all** solution, (2) the **end-all-be-all** for happiness in life

Some people may think money is the **end-all-be-all**, but there are more important things in life.

## compute

*v.* to make a mathematical calculation

*synonym*: calculate

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

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

## necessarily

*adv.* in an essential manner; in such a way as could not be otherwise

*synonym*: inevitable, certainly, automatically

(1) not **necessarily** a problem, (2) **necessarily** true

This accident was something that happened **necessarily**.

## ternary

*adj.* consisting of three parts or elements

*synonym*: three-part, triplet, trine

(1) **ternary** system, (2) **ternary** relationship

In **ternary** logic, there are only three possible values: true, false, and unknown.

## circuit

*n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area

*synonym*: route, course, rotation

(1) **circuit** breaker, (2) federal **circuit** courts  
An intelligent battery has a voltage monitoring **circuit**.

## 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.

## simultaneously

*adv.* at the same time

*synonym*: concurrently, coincidentally, together

(1) **simultaneously** affected, (2) take several inputs **simultaneously**

Two students answered the teacher's question **simultaneously**.

## stability

*n.* the quality or attribute of being firm and steadfast

*synonym*: resilience, solidity, steadiness

(1) **stability** pact, (2) fiscal **stability** pact

The policy should increase the country's monetary **stability**.

## 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**.

## 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.

## Session 2: Spelling

1. 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
2. the DNA se\_\_\_\_ce  
*n.* a series of related events, actions, numbers, etc., which have a particular order
3. con\_\_\_\_us improvement  
*adj.* occurring or existing without a pause or interruption
4. c\_\_l an arm  
*v.* to wind something in a spiral or helical shape; to create a coil or coil-like shape; to group or organize something closely together in a circular or spiral pattern
5. liquid cr\_\_\_\_l  
*n.* a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica
6. high fr\_\_\_\_cy  
*n.* an ordered array of colors into which a light beam can be split
7. the vo\_\_\_\_e spiked  
*n.* the difference in the force of an electric current between two points
8. in\_\_\_\_et the question  
*v.* to explain or assign the meaning of information, actions, etc.

ANSWERS: 1. storage, 2. sequence, 3. continuous, 4. coil, 5. crystal, 6. frequency, 7. voltage, 8. interpret

9. as\_\_\_n projects *v.* to give a specific job or piece of work to a someone
10. tr\_\_\_\_\_it information *v.* to send or forward an electronic signal; to pass something from one person or thing to another
11. te\_\_\_\_\_y relationship *adj.* consisting of three parts or elements
12. se\_\_\_\_\_te cream from milk *v.* to force, take, or pull apart; mark as different
13. end\_\_\_\_\_all solution *n.* something or someone that is considered the ultimate, definitive, or most important, often to the exclusion of other perspectives or options
14. os\_\_\_\_\_te back and forth *v.* to swing or move back and forth like a pendulum or a wave; to fluctuate or alternate between two points or states; to hesitate or be indecisive
15. industry-sp\_\_\_\_\_ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
16. pre\_\_\_\_\_ine effectiveness *v.* to decide or determine in advance; to establish or influence beforehand
17. a te\_\_\_\_\_ue in martial arts *n.* a particular way or art of doing something that needs skill
18. a con\_\_\_\_\_us row of warehouses *adj.* occurring or existing without a pause or interruption
19. pr\_\_\_\_\_y education *adj.* first or highest in rank, order, or importance; most fundamental or essential; pertaining to the initial or introductory stage of something, such as a school year or election cycle

ANSWERS: 9. assign, 10. transmit, 11. ternary, 12. separate, 13. end-all-be-all, 14. oscillate, 15. specific, 16. predetermine, 17. technique, 18. continuous, 19. primary

20. notable in\_\_\_\_\_ce *n.* a particular example or single occurrence of something
21. sp\_\_\_\_\_ic instructions *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
22. ad\_\_\_\_\_nt to his house *adj.* next to, close to, or adjoining something
23. re\_\_\_\_\_le access *adj.* worthy of being relied on; trustworthy
24. an infinite de\_\_\_\_\_l *adj.* based on or counted in the number 10
25. cognitive com\_\_\_\_\_ty *n.* the state or quality of being complicated or intricate and difficult to understand
26. v\_\_t meter *n.* a unit of measurement for electrical potential difference or electromotive force, equal to the force required to move one ampere of electric charge through one ohm of resistance
27. the di\_\_t in the hundreds place *n.* one of the elements that collectively form a system of numeration; a finger, thumb, or toe
28. sim\_\_\_\_\_sly affected *adv.* at the same time
29. in\_\_\_\_\_e heat *adj.* (especially of a feeling) very strong; extremely sharp or severe
30. a det\_\_\_\_\_nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
31. tra\_\_\_\_\_or radio *n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics

ANSWERS: 20. instance, 21. specific, 22. adjacent, 23. reliable, 24. decimal, 25. complexity, 26. volt, 27. digit, 28. simultaneously, 29. intense, 30. determinant, 31. transistor

32. 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
33. tense piano st\_\_\_\_gs *n.* long, thin material used for tying things together, composed of several twisted threads
34. in\_\_\_\_\_et a graph *v.* to explain or assign the meaning of information, actions, etc.
35. te\_\_\_\_y system *adj.* consisting of three parts or elements
36. co\_\_\_\_e an average score *v.* to make a mathematical calculation
37. fiscal st\_\_\_\_\_ty pact *n.* the quality or attribute of being firm and steadfast
38. tracking de\_\_\_\_e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
39. individual ins\_\_\_\_\_on *n.* detailed direction, order, etc., on how to do or use something
40. the se\_\_\_\_ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
41. di\_\_t identifier *n.* one of the elements that collectively form a system of numeration; a finger, thumb, or toe

ANSWERS: 32. process, 33. string, 34. interpret, 35. ternary, 36. compute, 37. stability, 38. device, 39. instruction, 40. sequence, 41. digit



42. the country's is \_\_\_\_\_ on  
*n.* the condition of being alone or lonely; the act or state of separation between persons or groups
43. federal ci\_\_\_\_\_t courts  
*n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
44. co\_\_\_\_\_ss gas  
*v.* to press or squeeze together to make something take up less space
45. nec\_\_\_\_\_ly true  
*adv.* in an essential manner; in such a way as could not be otherwise
46. co\_\_\_\_\_ss the chest  
*v.* to press or squeeze together to make something take up less space
47. have si\_\_\_\_\_ly great abilities  
*adv.* in almost the same way
48. 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
49. 12-v\_\_t battery  
*n.* a unit of measurement for electrical potential difference or electromotive force, equal to the force required to move one ampere of electric charge through one ohm of resistance
50. muscle am\_\_\_\_\_de  
*n.* the extent or magnitude of something; the volume or intensity of a sound wave or signal
51. c\_\_l wire  
*v.* to wind something in a spiral or helical shape; to create a coil or coil-like shape; to group or organize something closely together in a circular or spiral pattern

ANSWERS: 42. isolation, 43. circuit, 44. compress, 45. necessarily, 46. compress, 47. similarly, 48. storage, 49. volt, 50. amplitude, 51. coil

52. de\_\_\_\_l system *adj.* based on or counted in the number 10
53. 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
54. guarantee re\_\_\_\_le delivery *adj.* worthy of being relied on; trustworthy
55. vi\_\_\_\_e with anger *v.* to move or cause anything to move fast and in small increments from side to side
56. h\_e change *n.* the quality of a color as determined by its dominant wavelength
57. follow his ins\_\_\_\_ons *n.* detailed direction, order, etc., on how to do or use something
58. take a sn\_\_\_\_ot *n.* an informal photograph, especially one taken quickly
59. developed sn\_\_\_\_ot *n.* an informal photograph, especially one taken quickly
60. the h\_es of a rainbow *n.* the quality of a color as determined by its dominant wavelength
61. low vo\_\_\_\_e *n.* the difference in the force of an electric current between two points
62. st\_\_\_\_ty pact *n.* the quality or attribute of being firm and steadfast
63. probabilistic qu\_\_\_\_m theory *n.* the smallest amount or unit of something, especially (electromagnetic) energy
64. decision-making pr\_\_\_\_s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 52. decimal, 53. multiply, 54. reliable, 55. vibrate, 56. hue, 57. instruction,

58. snapshot, 59. snapshot, 60. hue, 61. voltage, 62. stability, 63. quantum, 64. process

65. laws of qu\_\_\_\_\_m mechanics      *n.* the smallest amount or unit of something, especially (electromagnetic) energy
66. 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
67. legal co\_\_\_\_\_t      *n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning
68. a person of ge\_\_\_\_\_s      *n.* someone who has exceptional intellectual ability and originality
69. fr\_\_\_\_\_cy band      *n.* an ordered array of colors into which a light beam can be split
70. re\_\_\_\_\_nt by a diagram      *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
71. environmental det\_\_\_\_\_nt      *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
72. pr\_\_\_\_\_y school      *adj.* first or highest in rank, order, or importance; most fundamental or essential; pertaining to the initial or introductory stage of something, such as a school year or election cycle
73. a picture fr\_\_e      *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window

ANSWERS: 65. quantum, 66. modulate, 67. context, 68. genius, 69. frequency, 70. represent, 71. determinant, 72. primary, 73. frame

74. cor\_\_\_\_\_nd with a foreign student      *v.* to match or be similar to something else almost exactly; to exchange messages
75. en\_\_\_e data      *v.* to convert information into a code or format suitable for storage or transmission
76. si\_\_\_\_\_ly situated      *adv.* in almost the same way
77. is\_\_\_\_\_on booth      *n.* the condition of being alone or lonely; the act or state of separation between persons or groups
78. ci\_\_\_\_\_t breaker      *n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
79. pre\_\_\_\_\_ine result      *v.* to decide or determine in advance; to establish or influence beforehand
80. os\_\_\_\_\_te between joy and anger      *v.* to swing or move back and forth like a pendulum or a wave; to fluctuate or alternate between two points or states; to hesitate or be indecisive
81. tra\_\_\_\_\_or circuit      *n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics
82. vi\_\_\_\_\_e at a regular frequency      *v.* to move or cause anything to move fast and in small increments from side to side
83. en\_\_\_e information      *v.* to convert information into a code or format suitable for storage or transmission

ANSWERS: 74. correspond, 75. encode, 76. similarly, 77. isolation, 78. circuit, 79. predetermine, 80. oscillate, 81. transistor, 82. vibrate, 83. encode

84. pu\_\_e waves *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
85. the characters that re\_\_\_\_\_nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
86. pi\_\_l density *n.* the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image
87. su\_\_\_\_\_e you're right *v.* to think that something is likely to be actual or possible
88. colorless li\_\_\_\_d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
89. cr\_\_\_\_\_l analyses *n.* a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica
90. the fr\_\_e of the policy *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
91. trading in bi\_\_\_\_y options *n.* a system of numbers that uses only two digits, 0 and 1
92. a ge\_\_\_\_s for music *n.* someone who has exceptional intellectual ability and originality

ANSWERS: 84. pulse, 85. represent, 86. pixel, 87. suppose, 88. liquid, 89. crystal, 90. frame, 91. binary, 92. genius

93. tr\_\_\_\_it the disease      *v.* to send or forward an electronic signal; to pass something from one person or thing to another
94. historical co\_\_\_\_t      *n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning
95. 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
96. cultural n\_\_m      *n.* something that is regarded as usual, typical, or standard
97. a bi\_\_\_\_y number      *n.* a system of numbers that uses only two digits, 0 and 1
98. ad\_\_\_\_nt houses      *adj.* next to, close to, or adjoining something
99. su\_\_\_\_e beforehand      *v.* to think that something is likely to be actual or possible
100. hazardous li\_\_\_\_d      *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
101. develop in\_\_\_\_e itching      *adj.* (especially of a feeling) very strong; extremely sharp or severe
102. cor\_\_\_\_nd to a standard      *v.* to match or be similar to something else almost exactly; to exchange messages
103. as\_\_\_\_n top priority      *v.* to give a specific job or piece of work to a someone
104. the end\_\_\_\_\_all for happiness in life      *n.* something or someone that is considered the ultimate, definitive, or most important, often to the exclusion of other perspectives or options

ANSWERS: 93. transmit, 94. context, 95. modulate, 96. norm, 97. binary, 98. adjacent, 99. suppose, 100. liquid, 101. intense, 102. correspond, 103. assign, 104. end-all-be-all

105. not nec\_\_\_\_\_ly a problem *adv.* in an essential manner; in such a way as could not be otherwise
106. a weak pu\_\_e *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
107. high am\_\_\_\_\_de *n.* the extent or magnitude of something; the volume or intensity of a sound wave or signal
108. take several inputs sim\_\_\_\_\_sly *adv.* at the same time
109. data com\_\_\_\_\_on *n.* the act or process of pressing or squeezing something together, often using force or pressure; (of physics) the reduction of volume or increase in pressure of a gas or fluid
110. electronic de\_\_\_e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
111. com\_\_\_\_\_on garment *n.* the act or process of pressing or squeezing something together, often using force or pressure; (of physics) the reduction of volume or increase in pressure of a gas or fluid
112. color pi\_\_ls *n.* the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image

ANSWERS: 105. necessarily, 106. pulse, 107. amplitude, 108. simultaneously, 109. compression, 110. device, 111. compression, 112. pixel



113. retie the st\_\_\_g and make it strong     *n.* long, thin material used for tying things together, composed of several twisted threads
114. so\_\_\_\_\_re architect     *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
115. 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
116. the te\_\_\_\_\_ue applied to construction     *n.* a particular way or art of doing something that needs skill
117. com\_\_\_\_\_ty theory     *n.* the state or quality of being complicated or intricate and difficult to understand
118. for in\_\_\_\_\_ce     *n.* a particular example or single occurrence of something
119. co\_\_\_\_\_e the value     *v.* to make a mathematical calculation
120. 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
121. copyrighted so\_\_\_\_\_re     *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
122. 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

ANSWERS: 113. string, 114. software, 115. multiply, 116. technique, 117. complexity, 118. instance, 119. compute, 120. transmission, 121. software, 122. transmission

123. se\_\_\_\_te video into chapter

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

124. n\_\_m of action

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

ANSWERS: 123. separate, 124. norm

## Session 3: Fill in the Blanks

1. The heavy snow has been \_\_\_\_\_ since last morning.  
*adj.* occurring or existing without a pause or interruption
2. 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
3. Please \_\_\_\_\_ a different color to each other kind of item.  
*v.* to give a specific job or piece of work to a someone
4. The sponge takes up the \_\_\_\_\_ well.  
*n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
5. 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
6. The systems we have developed has accepted as industry \_\_\_\_\_.  
*n.* something that is regarded as usual, typical, or standard
7. The scientist conducted a study that provided \_\_\_\_\_ details about the species' behavior.  
*adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
8. The numbers on the sign \_\_\_\_\_ to points on the map.  
*v.* to match or be similar to something else almost exactly; to exchange messages

ANSWERS: 1. continuous, 2. context, 3. assign, 4. liquid, 5. transmission, 6. norms, 7. specific, 8. correspond

9. The battery has a low \_\_\_\_\_ output, insufficient to power the device.  
*n.* a unit of measurement for electrical potential difference or electromotive force, equal to the force required to move one ampere of electric charge through one ohm of resistance
10. The oscillator hunts for the correct \_\_\_\_\_.  
*n.* an ordered array of colors into which a light beam can be split
11. She \_\_\_\_\_ the files into a single ZIP archive to save space on her computer.  
*v.* to press or squeeze together to make something take up less space
12. That statement by the prime minister drew \_\_\_\_\_ international criticism.  
*adj.* (especially of a feeling) very strong; extremely sharp or severe
13. The doctor recommended a \_\_\_\_\_ bandage to reduce swelling in the injured area.  
*n.* the act or process of pressing or squeezing something together, often using force or pressure; (of physics) the reduction of volume or increase in pressure of a gas or fluid
14. An intelligent battery has a voltage monitoring \_\_\_\_\_.  
*n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
15. The policy should increase the country's monetary \_\_\_\_\_.  
*n.* the quality or attribute of being firm and steadfast
16. In \_\_\_\_\_ logic, there are only three possible values: true, false, and unknown.  
*adj.* consisting of three parts or elements

ANSWERS: 9. volt, 10. frequency, 11. compressed, 12. intense, 13. compression, 14. circuit, 15. stability, 16. ternary

17. \_\_\_\_\_ 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
18. Connecting batteries in series increase the \_\_\_\_\_ of the circuit.
- n. the difference in the force of an electric current between two points
19. 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
20. The fan in the room \_\_\_\_\_ making the airflow more evenly.
- v. to swing or move back and forth like a pendulum or a wave; to fluctuate or alternate between two points or states; to hesitate or be indecisive
21. Mozart was a musical \_\_\_\_\_.
- n. someone who has exceptional intellectual ability and originality
22. A vast \_\_\_\_\_ chandelier glittered brightly above us.
- n. a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica
23. To achieve a warmer \_\_\_\_\_ add orange paint.
- n. the quality of a color as determined by its dominant wavelength
24. What do you \_\_\_\_\_ the culprit's motive was?
- v. to think that something is likely to be actual or possible

ANSWERS: 17. Multiply, 18. voltage, 19. modulate, 20. oscillates, 21. genius, 22. crystal, 23. hue, 24. suppose

25. The company specializes in both hardware and \_\_\_\_\_.
- n.* a set of computer programs and associated documentation and data for doing particular computational jobs
26. These articles cite five \_\_\_\_\_ of climate change.
- n.* a particular example or single occurrence of something
27. Some people may think money is the \_\_\_\_\_ but there are more important things in life.
- n.* something or someone that is considered the ultimate, definitive, or most important, often to the exclusion of other perspectives or options
28. 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
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
30. Big techs are now eager to develop \_\_\_\_\_ computers.
- n.* the smallest amount or unit of something, especially (electromagnetic) energy
31. 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
32. She carefully \_\_\_\_\_ the rope so that it wouldn't tangle.
- v.* to wind something in a spiral or helical shape; to create a coil or coil-like shape; to group or organize something closely together in a circular or spiral pattern

ANSWERS: 25. software, 26. instances, 27. end-all-be-all, 28. separate, 29. storage, 30. quantum, 31. represent, 32. coiled

33. 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
34. During the flight, the wings of the plane \_\_\_\_\_.  
*v.* to move or cause anything to move fast and in small increments from side to side
35. The software can \_\_\_\_\_ and decode encrypted messages.  
*v.* to convert information into a code or format suitable for storage or transmission
36. This accident was something that happened \_\_\_\_\_.  
*adv.* in an essential manner; in such a way as could not be otherwise
37. I tried to \_\_\_\_\_ the efficiency of the investment.  
*v.* to make a mathematical calculation
38. She wore a \_\_\_\_\_ of pearls around her neck.  
*n.* long, thin material used for tying things together, composed of several twisted threads
39. We do move forward with those tasks in \_\_\_\_\_ next week.  
*n.* a series of related events, actions, numbers, etc., which have a particular order
40. The cardiac monitor displays the intensity of your \_\_\_\_\_.  
*n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

ANSWERS: 33. device, 34. vibrate, 35. encode, 36. necessarily, 37. compute, 38. string, 39. sequence, 40. pulse

41. We must enter a six-\_\_\_\_\_ number to unlock the safe.

*n.* one of the elements that collectively form a system of numeration; a finger, thumb, or toe

42. Our country has military alliances with \_\_\_\_\_ countries.

*adj.* next to, close to, or adjoining something

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

*adv.* in almost the same way

44. The \_\_\_\_\_ cause of the accident was due to the icy road conditions.

*adj.* first or highest in rank, order, or importance; most fundamental or essential; pertaining to the initial or introductory stage of something, such as a school year or election cycle

45. Trains are \_\_\_\_\_ inexpensive, and ideal for long-distance travel.

*adj.* worthy of being relied on; trustworthy

46. There were framed \_\_\_\_\_ of family and friends in her room.

*n.* an informal photograph, especially one taken quickly

47. 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

48. 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

ANSWERS: 41. digit, 42. adjacent, 43. similarly, 44. primary, 45. reliable, 46. snapshots, 47. amplitude, 48. transmit



49. They needed further \_\_\_\_\_ to perform their duties efficiently.  
*n.* detailed direction, order, etc., on how to do or use something
50. Different people might \_\_\_\_\_ this news differently.  
*v.* to explain or assign the meaning of information, actions, etc.
51. Two students answered the teacher's question \_\_\_\_\_.  
*adv.* at the same time
52. The \_\_\_\_\_ point separates the whole number from the fractional part.  
*adj.* based on or counted in the number 10
53. I can't \_\_\_\_\_ the game's outcome, and anything can happen.  
*v.* to decide or determine in advance; to establish or influence beforehand
54. A \_\_\_\_\_ star is a system in which two stars revolve around each other.  
*n.* a system of numbers that uses only two digits, 0 and 1
55. One \_\_\_\_\_ of success is having a positive attitude and a strong work ethic.  
*n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
56. The project's \_\_\_\_\_ made it difficult for the team to complete it on time.  
*n.* the state or quality of being complicated or intricate and difficult to understand
57. The detective looked for fingerprints on the window \_\_\_\_\_.  
*n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window

ANSWERS: 49. instruction, 50. interpret, 51. simultaneously, 52. decimal, 53. predetermine, 54. binary, 55. determinant, 56. complexity, 57. frame

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

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

59. The invention of the \_\_\_\_\_ revolutionized the field of electronics.

*n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics

60. The computer screen comprises thousands of tiny \_\_\_\_\_ that create the overall picture.

*n.* the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image

61. 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

62. That incident led to his \_\_\_\_\_.

*n.* the condition of being alone or lonely; the act or state of separation between persons or groups

ANSWERS: 58. technique, 59. transistor, 60. pixels, 61. process, 62. isolation