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Vocabulary Builder Reference from...

Ayah Bdeir: Building blocks that blink, beep and teach
| TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

- fan** *n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces
synonym : lover, devotee, blade
(1) a film **fan**, (2) engine cooling **fan**
I'm a big **fan** of French food.
- concrete** *adj.* existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement
synonym : actual, factual, hardened
(1) a **concrete** noun, (2) **concrete** examples
The president asked for a more **concrete** plan.
- manufacture** *v.* to make goods in large numbers, usually in a factory using machines
synonym : create, fabricate, assemble
(1) **manufacture** an enzyme, (2) **manufacture** a product
The majority of synthetic vitamins are **manufactured** from oil.
- module** *n.* a self-contained unit or component of a larger system or structure; a standardized unit of computer hardware or software designed to perform a specific function
synonym :

component, unit, segment

(1) **module** software, (2) audio **module**

I must install a new programming **module** for my computer program to function properly.

cement

v. make fast as if with cement; (noun) a building material that is a powder made of a mixture of calcined limestone and clay, used with water, sand, and small stones to make concrete

synonym : adhesive, glue

(1) **cement** a close relationship, (2) **cement** blend

They are eager to **cement** a positive reputation.

measurement

n. the act or process of finding something's size, quantity, or degree

synonym : calculation, dimensions, size

(1) chest **measurement**, (2) a precise **measurement**

The **measurement** error of this industrial machine is less than one micrometer.

construct

v. to build or create something; to assemble or combine different parts to form something whole

synonym : build, assemble, create

(1) **construct** a 3D image, (2) **construct** a dam

He **constructs** hypotheses that no mathematician has ever imagined before.

brick

n. a rectangular block of baked clay used as a building material

synonym : block, tile, paver

(1) **brick** wall, (2) dressed **brick**

The wall was made of hard **bricks** that had been used for centuries.

essentially

adv. relating to the essential features or concepts of anything

synonym : fundamentally, basically, virtually

(1) **essentially** correct, (2) become **essentially** same
Essentially, a society is an organism.

automatic

adj. able to work or operate with little or no direct human control; independent of external control

synonym: mechanical, robotic, intuitive

(1) **automatic** operation, (2) the **automatic** shrinking of the pupils

In passenger aircraft, it is common to use an **automatic** pilot during cruising.

bind

v. to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly

synonym: tie, stick to, adhere

(1) **bind** the man's hands, (2) **bind** old letters into a bundle

The company's rules **bind** the employee's working hours.

estimate

v. to guess or calculate the cost, size, value, etc. of something

synonym: calculate, gauge, evaluate

(1) **estimate** a fair value, (2) **estimate** this chicken to weigh three pounds

We **estimated** the season's total trade deficit at \$50 billion.

planet

n. any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

synonym: earth, world, globe

(1) **planet** like the Earth, (2) save the **planet**

Mercury is the closest **planet** to the sun.

engineer

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

synonym: architect, creator, builder

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

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

accessible

adj. capable of being reached, easily got, or seen

synonym : affordable, available, unrestricted

(1) a town **accessible** by rail, (2) **accessible** to pity

He is an **accessible** and genial man.

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.

revolution

n. a large-scale attempt to overthrow the government of a country, often using violence or war;

synonym : coup, innovation, rebellion

(1) beginning of the industrial **revolution**, (2) a political **revolution**

The **revolution** by the citizen resulted in a redistribution of wealth.

announce

v. to make something known or officially inform people about something

synonym : disclose, declare, broadcast

(1) **announce** candidacy, (2) **announce** the award winners

The third season of the anime show has been **announced**.

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.

static

adj. not moving or not capable of moving, not changing or not capable of changing

synonym : immobile, unchanging, fixed

(1) **static** electricity, (2) **static** website

The **static** image on the screen took a lot of work to make out.

pile *n.* a collection of objects positioned one on top of another; a large sum of something, such as money
synonym: accumulation, heap, stack

(1) a sand **pile**, (2) the height of a **pile**

After the party, they had to clean up **piles** of dirty dishes.

interactive *adj.* acting reciprocally; mutually responsive
synonym: reciprocal, responsive, mutual

(1) **interactive** experience, (2) an **interactive** device

The new video game has an **interactive** storyline that allows players to make choices that affect the game's outcome.

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.

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**.

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.

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

synonym: workshop, laboratory, research chamber

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

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

explore *v.* to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it

synonym: analyze, delve into, examine

(1) **explore** the world, (2) **explore** our options

The management must **explore** strategies to increase office security.

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.

electronics *n.* the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems

synonym: technology, gadgets, circuitry

(1) **electronics** industry, (2) **electronics** store

The company specializes in manufacturing and selling cutting-edge **electronics**.

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.

function

n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

synonym : purpose, mapping, job

(1) **function** properly, (2) immune **function**

The brain is an incredibly complex organ that controls the body's **function**.

motor

n. a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work

synonym : actuator, engine, machine

(1) a **motor** mechanic, (2) DC **motor** control

Energy-efficient **motors** are needed to maximize the cruising distance of electric vehicles.

sensor

n. a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner

synonym : detector

(1) motion **sensor** lighting, (2) an image **sensor**

This automatic door could no longer be opened due to a **sensor** failure.

snap

v. to record on photographic film; to make a sudden, sharp sound; (noun) the act of catching an object with the hands

synonym : break, crack, fracture

(1) **snap** a whip, (2) **snap** judgment

She **snapped** a quick picture of the beautiful sunset before it disappeared.

magnet

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

synonym : magnetite, lodestone, attracting substance

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

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

knob

n. a round handle, especially one used for opening or closing a door, drawer, or cabinet

synonym : handle, lever

(1) handy **knob**, (2) **knob** closure

The **knob** on the drawer was loose and needed to be tightened.

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.

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**.

blink

v. to shut and open the eyes quickly; to gleam or glow in a regular or intermittent way

synonym : twinkle, flash, flicker

(1) **blink** his eyes, (2) **blink** in astonishment

He **blinked** in the dazzling sunlight.

buzzer

n. a device that produces a rapid, high-pitched sound or noise, often used to signal something or draw attention to something

synonym : alarm, signal, beeper

(1) door **buzzer**, (2) alarm **buzzer**

She jumped when the harsh **buzzer** noise indicated her laundry was done.

punch

v. to strike someone or something with one's fist; to make a hole in something

synonym: hit, strike, slap

(1) **punch** out numbers, (2) **punch** a ticket

He **punched** the wall in anger.

solder

n. a metal alloy, usually in a wire or paste form, used to join or fuse together metal surfaces, typically at lower temperatures than required for welding

synonym: soldering, brazing, welding

(1) **solder** joint, (2) lead-free **solder**

The technician recommended a specific **solder** alloy for the job, considering the materials being joined.

intuitive

adj. obtained through feelings rather than facts or proof

synonym: involuntary, instinctive, innate

(1) **intuitive** eating, (2) **intuitive** judgment

I had an **intuitive** feeling that I might be pregnant.

gesture

n. a movement of the hands, head, or face that express a particular meaning

synonym: motion, expression, gesticulation

(1) **gesture** of goodwill, (2) hand **gesture**

She made a facial **gesture** to express disagreement.

interaction

n. the act of connecting with someone, mainly when working, playing, or spending time with them

synonym: dealings, exchange, relations

(1) the **interaction** between man and his environment,

(2) **interaction** among human beings

The **interaction** of the two groups is good for brainstorming.

solar

adj. of, from, or relating to the sun

(1) the **solar** system, (2) a **solar** eclipse

Solar panels have greatly improved not only in performance but also in durability.

panel

n. a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something

synonym: board, commission, discussion

(1) **panel** discussion, (2) cost of solar **panels**

A **panel** of economic advisers from the United States visited the country to help rebuild its economy.

incredible

adj. unbelievable; enormous

synonym: unbelievable, fantastical, inconceivable

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

Her response revealed **incredible** idiocy.

elevator

n. a mechanical device used for vertical transportation, typically in multi-story buildings, consisting of a compartmentalized platform that moves between floors

synonym: lift, hoist

(1) **elevator** ride, (2) modern **elevator**

The hotel's **elevator** was out of order, so we had to take the stairs to our room on the fifth floor.

whatsoever

adv. not at all; no matter what

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

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

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

clang

v. to make a loud, resonant, metallic sound, often by striking two hard surfaces together; (noun) a loud, resonant, metallic sound, typically produced by striking two hard surfaces together

synonym: clatter, rattle, ring

(1) gate **clang** shut, (2) **clang** of machinery

The pots and pans in the kitchen began to **clang** loudly as the train passed.

buzz

v. to make a continuous, low humming sound such as the one a bee makes; an exciting and active atmosphere

synonym: hum, murmur, whisper

(1) the **buzz** of a cicada, (2) **buzz** marketing

I heard the **buzz** of conversation from the next room.

cardboard

n. a stiff, thick material made from compressed paper pulp used to make boxes and other packaging materials

synonym: corrugated board, paperboard

(1) **cardboard** box, (2) **cardboard** cutout

I made a **cardboard** box to store my winter clothes in.

activate

v. make something start working, more active or dynamic

synonym: mobilize, stimulate, initiate

(1) **activate** a receptor, (2) **activate** a motor

You must **activate** the software with a 16-digit key before you can use it.

confetti

n. small pieces of colored paper or other material that are thrown around on festive occasions, especially in celebration or as part of the decoration

(1) **confetti** party, (2) **confetti-filled** balloons

We threw **confetti** at the wedding to celebrate the happy couple.

canon

n. a set of rules, principles, or standards by which something is judged or measured

synonym: rule, principle, standard

(1) **canon** law, (2) strict **canon**

The **canon** of classical literature includes works by Shakespeare, Chaucer, and Homer.

lobster

n. a marine crustacean with a hard, often brightly colored shell, a pair of large pincers, and a tail used for swimming

synonym : crustacean, crawfish, crayfish

(1) **lobster** dinner, (2) fresh **lobster**

The restaurant served a delicious **lobster**, steamed to perfection.

dough

n. a mixture of flour, liquid, and other ingredients, typically used to make bread, pastry, or pasta

synonym : flour, mix

(1) work **dough**, (2) **dough** for pastry

She mixed flour, yeast, sugar, and water to make **dough** for the bread.

download

v. to transfer data or files from the Internet or computer network to a user's computer or device; (noun) the process of transferring data or information from a remote or central computer to a local computer or device

synonym : load, save, transfer

(1) **download** files from the Internet, (2) **download** the assignment from the website

I need to **download** the latest update for my computer's operating system.

encourage

v. to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do

synonym : facilitate, persuade, stimulate

(1) **encourage** a sense of affinity, (2) **encourage** antisocial behavior

They **encouraged** customers with a premium for loyal patronage.

invention

n. the creation of a new device or process resulting from study and experimentation; the act of inventing

synonym : creation, design, innovation

(1) the **invention** of new techniques, (2) common **invention**
Necessity is the mother of **invention**.

contributor

n. a person or thing that adds to the achievement, production, or growth of something (such as a project, organization, or publication); a donor or benefactor

synonym : donor, giver, subscriber

(1) **contributor** of funds, (2) regular **contributor**
She is a major **contributor** to the local food bank, volunteering every week.

Session 2: Spelling

1. the height of a p__e *n.* a collection of objects positioned one on top of another; a large sum of something, such as money
2. en_____ge a sense of affinity *v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
3. ex_____e the world *v.* to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
4. con_____or of funds *n.* a person or thing that adds to the achievement, production, or growth of something (such as a project, organization, or publication); a donor or benefactor
5. lo_____r dinner *n.* a marine crustacean with a hard, often brightly colored shell, a pair of large pincers, and a tail used for swimming
6. engine cooling f_n *n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces
7. en_____ge antisocial behavior *v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do

ANSWERS: 1. pile, 2. encourage, 3. explore, 4. contributor, 5. lobster, 6. fan, 7. encourage

8. man_____re an enzyme *v.* to make goods in large numbers, usually in a factory using machines
9. save the pl____t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
10. s__p judgment *v.* to record on photographic film; to make a sudden, sharp sound; (noun) the act of catching an object with the hands
11. wha_____er it be *adv.* not at all; no matter what
12. lead-free so____r *n.* a metal alloy, usually in a wire or paste form, used to join or fuse together metal surfaces, typically at lower temperatures than required for welding
13. ac_____te a receptor *v.* make something start working, more active or dynamic
14. 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
15. a so__r eclipse *adj.* of, from, or relating to the sun
16. au_____ic operation *adj.* able to work or operate with little or no direct human control; independent of external control
17. 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

ANSWERS: 8. manufacture, 9. planet, 10. snap, 11. whatsoever, 12. solder, 13. activate, 14. develop, 15. solar, 16. automatic, 17. circuit

18. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
19. b__z marketing *v.* to make a continuous, low humming sound such as the one bee makes; an exciting and active atmosphere
20. s__p a whip *v.* to record on photographic film; to make a sudden, sharp sound; (noun) the act of catching an object with the hands
21. permanent ma____t *n.* an object or substance that can attract certain materials, such as iron or steel
22. the in_____on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
23. br__k wall *n.* a rectangular block of baked clay used as a building material
24. DC mo__r control *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
25. 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
26. alarm bu____r *n.* a device that produces a rapid, high-pitched sound or noise, often used to signal something or draw attention to something
27. int_____on among human beings *n.* the act of connecting with someone, mainly when working, playing, or spending time with them

ANSWERS: 18. complexity, 19. buzz, 20. snap, 21. magnet, 22. invention, 23. brick, 24. motor, 25. transistor, 26. buzzer, 27. interaction

28. ac____te a motor *v.* make something start working, more active or dynamic
29. an int_____ve device *adj.* acting reciprocally; mutually responsive
30. b__d the man's hands *v.* to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly
31. de___e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
32. do_____ad the assignment from the website *v.* to transfer data or files from the Internet or computer network to a user's computer or device; (noun) the process of transferring data or information from a remote or central computer to a local computer or device
33. 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
34. at inc_____le speed *adj.* unbelievable; enormous
35. in_____ve eating *adj.* obtained through feelings rather than facts or proof
36. im_____ry pregnancy *adj.* existing only in someone's mind
37. ele_____cs store *n.* the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems

ANSWERS: 28. activate, 29. interactive, 30. bind, 31. decide, 32. download, 33. pulse, 34. incredible, 35. intuitive, 36. imaginary, 37. electronics

38. in_____ve judgment *adj.* obtained through feelings rather than facts or proof
39. inc_____le amount *adj.* unbelievable; enormous
40. co_____te examples *adj.* existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement
41. st___c electricity *adj.* not moving or not capable of moving, not changing or not capable of changing
42. ele_____cs industry *n.* the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems
43. co_____ti party *n.* small pieces of colored paper or other material that are thrown around on festive occasions, especially in celebration or as part of the decoration
44. k__b closure *n.* a round handle, especially one used for opening or closing a door, drawer, or cabinet
45. mo___e software *n.* a self-contained unit or component of a larger system or structure; a standardized unit of computer hardware or software designed to perform a specific function
46. int_____ve experience *adj.* acting reciprocally; mutually responsive
47. pu__h out numbers *v.* to strike someone or something with one's fist; to make a hole in something

ANSWERS: 38. intuitive, 39. incredible, 40. concrete, 41. static, 42. electronics, 43. confetti, 44. knob, 45. module, 46. interactive, 47. punch

48. a co____te noun *adj.* existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement
49. modern el____or *n.* a mechanical device used for vertical transportation, typically in multi-story buildings, consisting of a compartmentalized platform that moves between floors
50. st____c website *adj.* not moving or not capable of moving, not changing or not capable of changing
51. an____ce the award winners *v.* to make something known or officially inform people about something
52. a precise mea____nt *n.* the act or process of finding something's size, quantity, or degree
53. man____re a product *v.* to make goods in large numbers, usually in a factory using machines
54. a political rev____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
55. sp____ic instructions *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
56. d_m memory *adj.* poorly lit; not bright
57. a film f_n *n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces
58. a civil en____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software

ANSWERS: 48. concrete, 49. elevator, 50. static, 51. announce, 52. measurement, 53. manufacture, 54. revolution, 55. specific, 56. dim, 57. fan, 58. engineer

59. 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
60. regular con_____or *n.* a person or thing that adds to the achievement, production, or growth of something (such as a project, organization, or publication); a donor or benefactor
61. an____ce candidacy *v.* to make something known or officially inform people about something
62. the so__r system *adj.* of, from, or relating to the sun
63. co____ti-filled balloons *n.* small pieces of colored paper or other material that are thrown around on festive occasions, especially in celebration or as part of the decoration
64. the int_____on between man and his environment *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
65. door bu____r *n.* a device that produces a rapid, high-pitched sound or noise, often used to signal something or draw attention to something
66. ma____t attraction *n.* an object or substance that can attract certain materials, such as iron or steel
67. a mo__r mechanic *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work

ANSWERS: 59. develop, 60. contributor, 61. announce, 62. solar, 63. confetti, 64. interaction, 65. buzzer, 66. magnet, 67. motor

68. common in _____ on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
69. motion se ___r lighting *n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
70. ess _____ly correct *adv.* relating to the essential features or concepts of anything
71. immune fu _____ on *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
72. im _____ry number *adj.* existing only in someone's mind
73. cl ___g of machinery *v.* to make a loud, resonant, metallic sound, often by striking two hard surfaces together; (noun) a loud, resonant, metallic sound, typically produced by striking two hard surfaces together
74. en _____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
75. chest mea _____nt *n.* the act or process of finding something's size, quantity, or degree

ANSWERS: 68. invention, 69. sensor, 70. essentially, 71. function, 72. imaginary, 73. clang, 74. engineer, 75. measurement

76. dressed br__k *n.* a rectangular block of baked clay used as a building material
77. el____or ride *n.* a mechanical device used for vertical transportation, typically in multi-story buildings, consisting of a compartmentalized platform that moves between floors
78. without impact wha____er *adv.* not at all; no matter what
79. a sand p__e *n.* a collection of objects positioned one on top of another; a large sum of something, such as money
80. d_m and distant past *adj.* poorly lit; not bright
81. gate cl__g shut *v.* to make a loud, resonant, metallic sound, often by striking two hard surfaces together; (noun) a loud, resonant, metallic sound, typically produced by striking two hard surfaces together
82. strict ca__n *n.* a set of rules, principles, or standards by which something is judged or measured
83. so____r joint *n.* a metal alloy, usually in a wire or paste form, used to join or fuse together metal surfaces, typically at lower temperatures than required for welding
84. es____te this chicken to weigh three pounds *v.* to guess or calculate the cost, size, value, etc. of something
85. become ess____ly same *adv.* relating to the essential features or concepts of anything

ANSWERS: 76. brick, 77. elevator, 78. whatsoever, 79. pile, 80. dim, 81. clang, 82. canon, 83. solder, 84. estimate, 85. essentially

86. 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
87. hand ge_____e *n.* a movement of the hands, head, or face that express a particular meaning
88. ex_____e our options *v.* to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
89. bl__k in astonishment *v.* to shut and open the eyes quickly; to gleam or glow in a regular or intermittent way
90. ca_____rd box *n.* a stiff, thick material made from compressed paper pulp used to make boxes and other packaging materials
91. handy k__b *n.* a round handle, especially one used for opening or closing a door, drawer, or cabinet
92. cost of solar pa__ls *n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
93. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
94. audio mo_____e *n.* a self-contained unit or component of a larger system or structure; a standardized unit of computer hardware or software designed to perform a specific function

ANSWERS: 86. transistor, 87. gesture, 88. explore, 89. blink, 90. cardboard, 91. knob, 92. panel, 93. lab, 94. module

95. ca_____rd cutout *n.* a stiff, thick material made from compressed paper pulp used to make boxes and other packaging materials
96. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
97. an image se____r *n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
98. ge_____e of goodwill *n.* a movement of the hands, head, or face that express a particular meaning
99. co_____ct a 3D image *v.* to build or create something; to assemble or combine different parts to form something whole
100. fresh lo_____r *n.* a marine crustacean with a hard, often brightly colored shell, a pair of large pincers, and a tail used for swimming
101. bl__k his eyes *v.* to shut and open the eyes quickly; to gleam or glow in a regular or intermittent way
102. b__d old letters into a bundle *v.* to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly
103. ca__n law *n.* a set of rules, principles, or standards by which something is judged or measured
104. ce____t a close relationship *v.* make fast as if with cement; (noun) a building material that is a powder made of a mixture of calcined limestone and clay, used with water, sand, and small stones to make concrete

ANSWERS: 95. cardboard, 96. lab, 97. sensor, 98. gesture, 99. construct, 100. lobster, 101. blink, 102. bind, 103. canon, 104. cement

105. acc_____le to pity *adj.* capable of being reached, easily got, or seen
106. the b__z of a cicada *v.* to make a continuous, low humming sound such as the one bee makes; an exciting and active atmosphere
107. do__h for pastry *n.* a mixture of flour, liquid, and other ingredients, typically used to make bread, pastry, or pasta
108. co_____ct a dam *v.* to build or create something; to assemble or combine different parts to form something whole
109. beginning of the industrial rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
110. a town acc_____le by rail *adj.* capable of being reached, easily got, or seen
111. pa__l discussion *n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
112. es_____te a fair value *v.* to guess or calculate the cost, size, value, etc. of something
113. 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
114. pl___t like the Earth *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

ANSWERS: 105. accessible, 106. buzz, 107. dough, 108. construct, 109. revolution, 110. accessible, 111. panel, 112. estimate, 113. decide, 114. planet

115. the au_____ic shrinking of the pupils
adj. able to work or operate with little or no direct human control; independent of external control
116. industry-sp_____ic regulations
adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
117. pu__h a ticket
v. to strike someone or something with one's fist; to make a hole in something
118. com_____ty theory
n. the state or quality of being complicated or intricate and difficult to understand
119. 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
120. do_____ad files from the Internet
v. to transfer data or files from the Internet or computer network to a user's computer or device; (noun) the process of transferring data or information from a remote or central computer to a local computer or device
121. 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
122. ce___t blend
v. make fast as if with cement; (noun) a building material that is a powder made of a mixture of calcined limestone and clay, used with water, sand, and small stones to make concrete

ANSWERS: 115. automatic, 116. specific, 117. punch, 118. complexity, 119. pulse, 120. download, 121. circuit, 122. cement

123. fu____on properly

n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

124. work do__h

n. a mixture of flour, liquid, and other ingredients, typically used to make bread, pastry, or pasta

ANSWERS: 123. function, 124. dough

Session 3: Fill in the Blanks

1. A _____ of economic advisers from the United States visited the country to help rebuild its economy.
 - n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something

2. In passenger aircraft, it is common to use an _____ pilot during cruising.
 - adj.* able to work or operate with little or no direct human control; independent of external control

3. The majority of synthetic vitamins are _____ from oil.
 - v.* to make goods in large numbers, usually in a factory using machines

4. We threw _____ at the wedding to celebrate the happy couple.
 - n.* small pieces of colored paper or other material that are thrown around on festive occasions, especially in celebration or as part of the decoration

5. I need to _____ the latest update for my computer's operating system.
 - v.* to transfer data or files from the Internet or computer network to a user's computer or device; (noun) the process of transferring data or information from a remote or central computer to a local computer or device

6. She mixed flour, yeast, sugar, and water to make _____ for the bread.
 - n.* a mixture of flour, liquid, and other ingredients, typically used to make bread, pastry, or pasta

7. She jumped when the harsh _____ noise indicated her laundry was done.
 - n.* a device that produces a rapid, high-pitched sound or noise, often used to signal something or draw attention to something

ANSWERS: 1. panel, 2. automatic, 3. manufactured, 4. confetti, 5. download, 6. dough, 7. buzzer

8. After the party, they had to clean up _____ of dirty dishes.
- n.* a collection of objects positioned one on top of another; a large sum of something, such as money
9. They are eager to _____ a positive reputation.
- v.* make fast as if with cement; (noun) a building material that is a powder made of a mixture of calcined limestone and clay, used with water, sand, and small stones to make concrete
10. The management must _____ strategies to increase office security.
- v.* to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
11. The hotel's _____ was out of order, so we had to take the stairs to our room on the fifth floor.
- n.* a mechanical device used for vertical transportation, typically in multi-story buildings, consisting of a compartmentalized platform that moves between floors
12. He _____ hypotheses that no mathematician has ever imagined before.
- v.* to build or create something; to assemble or combine different parts to form something whole
13. The new video game has an _____ storyline that allows players to make choices that affect the game's outcome.
- adj.* acting reciprocally; mutually responsive
14. The _____ on the drawer was loose and needed to be tightened.
- n.* a round handle, especially one used for opening or closing a door, drawer, or cabinet

ANSWERS: 8. piles, 9. cement, 10. explore, 11. elevator, 12. constructs, 13. interactive, 14. knob

15. Necessity is the mother of _____.
- n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
16. Her response revealed _____ idiocy.
- adj.* unbelievable; enormous
17. We _____ the season's total trade deficit at \$50 billion.
- v.* to guess or calculate the cost, size, value, etc. of something
18. _____ a society is an organism.
- adv.* relating to the essential features or concepts of anything
19. I'm a big ___ of French food.
- n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces
20. I must install a new programming _____ for my computer program to function properly.
- n.* a self-contained unit or component of a larger system or structure; a standardized unit of computer hardware or software designed to perform a specific function
21. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
- n.* a workplace for the conduct of scientific research; a laboratory
22. The _____ by the citizen resulted in a redistribution of wealth.
- n.* a large-scale attempt to overthrow the government of a country, often using violence or war;

ANSWERS: 15. invention, 16. incredible, 17. estimated, 18. Essentially, 19. fan, 20. module, 21. lab, 22. revolution

23. 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
24. The pots and pans in the kitchen began to _____ loudly as the train passed.
- v.* to make a loud, resonant, metallic sound, often by striking two hard surfaces together; (noun) a loud, resonant, metallic sound, typically produced by striking two hard surfaces together
25. I made a _____ box to store my winter clothes in.
- n.* a stiff, thick material made from compressed paper pulp used to make boxes and other packaging materials
26. 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
27. The technician recommended a specific _____ alloy for the job, considering the materials being joined.
- n.* a metal alloy, usually in a wire or paste form, used to join or fuse together metal surfaces, typically at lower temperatures than required for welding
28. He refused to do anything _____ to help her.
- adv.* not at all; no matter what
29. The president asked for a more _____ plan.
- adj.* existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement

ANSWERS: 23. transistor, 24. clang, 25. cardboard, 26. pulse, 27. solder, 28. whatsoever, 29. concrete

30. You must _____ the software with a 16-digit key before you can use it.
v. make something start working, more active or dynamic
31. The _____ image on the screen took a lot of work to make out.
adj. not moving or not capable of moving, not changing or not capable of changing
32. 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
33. 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
34. He _____ in the dazzling sunlight.
v. to shut and open the eyes quickly; to gleam or glow in a regular or intermittent way
35. I heard the _____ of conversation from the next room.
v. to make a continuous, low humming sound such as the one a bee makes; an exciting and active atmosphere
36. The third season of the anime show has been _____.
v. to make something known or officially inform people about something
37. I had an _____ feeling that I might be pregnant.
adj. obtained through feelings rather than facts or proof

ANSWERS: 30. activate, 31. static, 32. develop, 33. circuit, 34. blinked, 35. buzz, 36. announced, 37. intuitive

38. Little children tend to have _____ friends.

adj. existing only in someone's mind

39. The MRI machine uses _____ to produce images of the body's internal organs.

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

40. Energy-efficient _____ are needed to maximize the cruising distance of electric vehicles.

n. a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work

41. This automatic door could no longer be opened due to a _____ failure.

n. a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner

42. The company's rules _____ the employee's working hours.

v. to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly

43. She is a major _____ to the local food bank, volunteering every week.

n. a person or thing that adds to the achievement, production, or growth of something (such as a project, organization, or publication); a donor or benefactor

44. The _____ of classical literature includes works by Shakespeare, Chaucer, and Homer.

n. a set of rules, principles, or standards by which something is judged or measured

ANSWERS: 38. imaginary, 39. magnets, 40. motors, 41. sensor, 42. bind, 43. contributor, 44. canon

45. 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
46. 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
47. _____ panels have greatly improved not only in performance but also in durability.
adj. of, from, or relating to the sun
48. She made a facial _____ to express disagreement.
n. a movement of the hands, head, or face that express a particular meaning
49. The ___ light made it difficult to read the book.
adj. poorly lit; not bright
50. The _____ will repair my telephone tomorrow morning.
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software
51. The restaurant served a delicious _____ steamed to perfection.
n. a marine crustacean with a hard, often brightly colored shell, a pair of large pincers, and a tail used for swimming
52. He is an _____ and genial man.
adj. capable of being reached, easily got, or seen
53. The brain is an incredibly complex organ that controls the body's _____.
n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

ANSWERS: 45. decide, 46. complexity, 47. Solar, 48. gesture, 49. dim, 50. engineer,

51. lobster, 52. accessible, 53. function

54. The _____ error of this industrial machine is less than one micrometer.
n. the act or process of finding something's size, quantity, or degree
55. Mercury is the closest _____ to the sun.
n. any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
56. 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
57. They _____ customers with a premium for loyal patronage.
v. to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
58. The wall was made of hard _____ that had been used for centuries.
n. a rectangular block of baked clay used as a building material
59. He _____ the wall in anger.
v. to strike someone or something with one's fist; to make a hole in something
60. The company specializes in manufacturing and selling cutting-edge _____.
n. the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems
61. She _____ a quick picture of the beautiful sunset before it disappeared.
v. to record on photographic film; to make a sudden, sharp sound; (noun) the act of catching an object with the hands

ANSWERS: 54. measurement, 55. planet, 56. specific, 57. encouraged, 58. bricks, 59. punched, 60. electronics, 61. snapped

62. The _____ of the two groups is good for brainstorming.

- n.* the act of connecting with someone, mainly when working, playing, or spending time with them

ANSWERS: 62. interaction