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TED-Ed: The world's biggest battery looks nothing like a battery | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

lithium

n. a soft, silvery-white metal that is highly reactive and used in batteries, alloy production, and medications for bipolar disorder

synonym : lithy, Li, salt

(1) **lithium** carbonate, (2) **lithium** mining

Lithium-ion batteries are commonly used in laptops, smartphones, and electric vehicles.

ion

n. an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons

(1) **ion** channel, (2) rechargeable lithium- **ion** battery

The increased concentrat **ion** of hydrogen ions in an aqueous solution makes it more acidic.

battery

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

synonym : electric cell, array, batch

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

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

hooked

adj. being caught or caught up in something; curved down like an eagle's beak

synonym : caught, captivated, addicted

(1) **hooked** hair, (2) **hooked** on drugs

My son was **hooked** on the Internet.

grid

n. a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region

synonym : gridiron, battery grid, power system

(1) a **grid** design, (2) a wire **grid**

Grid pattern roads often appear in urban areas.

watt

n. a standard unit for measuring electrical power

(1) 30- **watt** light bulb, (2) **watt** per square meter

Several hectares of land are needed to generate more than 1-mega **watt** solar power.

define

v. to state or explain precisely the nature, scope, or meaning of something

synonym : characterize, depict, express

(1) **define** a word, (2) **define** my position

To advance this discussion, we must **define** "success" rigorously.

release

v. to set free or allow to escape from confinement

synonym : free, let go, discharge

(1) **release** a prisoner, (2) **release** CO2 into the air

The animal rights group worked to **release** the dolphins back into the wild.

laptop

n. a portable computer that is small enough to be carried around easily and used on your lap

(1) bring my **laptop**, (2) thin-and-light **laptop**

I need to finish this report by tonight, so I'll be working on my **laptop** all day.

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.

electron

n. a tiny particle with the negative electrical charge

synonym: negatron

(1) flow of **electrons**, (2) beam of **electrons**

The outermost **electron** shell determines the chemical properties of an atom.

rejoin

v. to return to someone or something

synonym: come back, return, reunite

(1) **rejoin** their mother ship, (2) **rejoin** the party

After the battle, the soldier managed to **rejoin** his unit.

molecule

n. a group of two or more atoms held together by attractive forces known as chemical bonds

synonym: particle, element, atom

(1) small **molecules**, (2) **molecule** behavior

The shape of the DNA **molecule** is a double helix.

electrify

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

synonym: wire, amaze, astonish

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

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

pump

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

synonym : drain, inject, send

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

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

gravitational

adj. relating to or caused by gravity (= the force that attracts objects towards one another)

synonym : weighty, heavy, earthbound

(1) **gravitational** energy, (2) **gravitational** waves

The **gravitational** force of the black hole was so strong that nothing, not even light, could escape.

valve

n. a device for controlling the flow of a fluid or gas through a pipe or duct by means of a movable part that opens, closes, or restricts the opening

synonym : tap, spigot, faucet

(1) electromagnetic **valve**, (2) **valve** control

The **valve** on the pipeline was leaking, so maintenance had to shut it off to make repairs.

downhill

adv. in a direction that is downward or from a higher to a lower point; in a progressively worse or deteriorating manner

synonym : downslope

(1) ski **downhill**, (2) walk **downhill** to the beach

The family's finances have been going **downhill** since they lost their main source of income.

giant

adj. enormous; much bigger or more important than similar items usually are

synonym : big, gigantic, huge

(1) **giant** trees, (2) **giant** tech company

The **giant** jets gradually dominate the world's airlines.

turbine

n. a machine that rotates to generate power from fluids such as water or gas

synonym : engine, generator, power plant

(1) **turbine** energy, (2) **turbine** aerofoil

The wind **turbines** were spinning rapidly, generating clean energy for the nearby town.

sustainable

adj. able to continue or be continued for a long time

synonym : continuable, enduring, tolerable

(1) **sustainable** alternative fuel, (2) principles of **sustainable** development

The government should do more to support environmentally **sustainable** agriculture.

greenhouse

n. a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in

synonym : conservatory

(1) exotic plants in a **greenhouse**, (2) emissions of **greenhouse** gases

The **greenhouse** effect is a phenomenon that happens naturally.

unfortunately

adv. by bad luck; unluckily

synonym : regrettably, unluckily, alas

(1) **unfortunately** caught in a shower, (2) even more **unfortunately**

The treatments were done but, **unfortunately**, were unsuccessful.

setup

n. the arrangement or organization of something, often with a specific purpose or intention; a scheme or plan that is intended to deceive or trick someone

synonym : arrangement, installation, organization

(1) office **setup**, (2) network **setup**

The **setup** for the conference was impressive and professional.

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.

geography

n. a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth

synonym : landscape, terrain, topography

(1) **geography** class, (2) economic **geography**

She did well on her **geography** exam.

upfront

adj. frank and honest; (adverb) (of payment) in advance

synonym : honest, authentic, fair

(1) an **upfront** tone, (2) pay **upfront**

He was very **upfront** with him about his intentions.

typical

adj. having the usual characteristics or traits of a specific group of things

synonym : characteristic, usual, distinctive

(1) **typical** leader, (2) fairly **typical** symptoms

This artwork is **typical** of her work.

commerce

n. the activity of buying and selling things, especially on a large scale

synonym : trade, transaction, dealings

(1) interstate **commerce**, (2) the local chamber of **commerce**

This company has invested heavily in Internet **commerce**.

jet

n. a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances

synonym : plane, aircraft, flier

(1) private **jet**, (2) commercial **jet**

The **jet** flew over the ocean at high speed, reaching its destination in hours.

refuel

v. to put additional fuel into a plane, ship, car, etc.

(1) **refuel** air-to-air, (2) **refuel** bombers in flight

Our plane stopped in the country to **refuel**.

environment

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

synonym: atmosphere, surroundings, climate

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

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

damage

v. to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity

synonym: harm, impair, injure

(1) **damage** a relationship, (2) **damage** assessment

During the surgery, the doctor had to be extremely cautious not to **damage** a blood vessel.

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**.

weird

adj. extraordinary, unexpected, or difficult to explain

synonym: bizarre, creepy, peculiar

(1) a **weird** dress, (2) the state of being **weird**

My computer has been acting **weird** recently.

skyscraper

n. a very tall building, typically one in a city

synonym: high-rise, tower

(1) **skyscraper** apartment house, (2) steel-framed **skyscraper**

The 50-floor **skyscraper** loomed over the city, dwarfing the other buildings.

crane

n. a large, tall machine used for moving heavy objects by suspending them from a beam or hook

synonym : hoist, derrick, winch

(1) **crane** operator, (2) **crane** construction

The construction workers used a **crane** to lift the heavy beams.

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.

tower

n. a structure that is exceptionally high in proportion to its width and either forms part of a building or stands alone

synonym : building, belfry, edifice

(1) a bell **tower**, (2) the **tower** on a cliff

She is a **tower** of strength for our team in trouble.

gravity

n. the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn

synonym : heaviness, attraction, weight

(1) the attraction of **gravity**, (2) preserve my **gravity**

The astronaut felt weightless in space due to the absence of **gravity**.

spin

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

synonym : rotate, twirl, swirl

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

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

setback

n. an unfortunate happening that hinders or impedes; a reversal or check in progress

synonym: obstacle, hindrance, difficulty

(1) major **setback**, (2) suffer a **setback**

The team experienced a **setback** when their star player was injured during the game.

involve

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

synonym: implicate, include, engage

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

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

melt

v. to turn from something solid into something soft or liquid as a result of heating

synonym: disintegrate, soften, disappear

(1) **melt** the ice, (2) **melt** down gold

Her resistance **melted** under his persuasion.

molten

adj. in a liquid state as a result of being heated

synonym: melted, liquefied, fused

(1) a **molten** image, (2) **molten** lava

The **molten** metal was poured into the mold.

bacteria

n. single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

synonym: microorganism, microbe

(1) pathogenic **bacteria**, (2) harmless **bacteria**

Bacteria prevalent in hospitals are often resistant to

antibiotics.

spit

v. to eject saliva or other liquid from the mouth

synonym: expectorate, saliva, spew

(1) **spit** a bullet, (2) **spit** a mouthful of saliva

She tried to **spit** out the gum that she had been chewing.

metabolism

n. the set of chemical reactions in cells or organisms that are necessary for life-sustaining

(1) **metabolism** enzyme, (2) hemoglobin **metabolism**

Better sleep leads to increased **metabolism**.

glucose

n. a type of sugar that is found in plants, especially fruit, and is an essential energy source in living things

synonym: sugar, blood sugar

(1) blood **glucose** test, (2) **glucose** level

The doctor injected **glucose** into his patient's veins.

transfer

v. to move, pass, or change from one person, place, or situation to another

synonym: move, relocate, shift

(1) **transfer** a file, (2) **transfer** power

She **transferred** the money from her savings account to her checking account.

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**.

tradition

n. a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society

synonym: custom, practice, ritual

(1) a **tradition** of a culture, (2) against **tradition**

It is a **tradition** in many families to have a big Thanksgiving dinner with all their relatives.

vast

adj. enormous in size, number, amount, or quantity

synonym : expansive, extended, boundless

(1) **vast** majority, (2) **vast** desert

A **vast** audience viewed the broadcast.

microscopic

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

synonym : infinitesimal, tiny, atomic

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

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

seawater

n. water from the sea or ocean, typically containing salt and various other dissolved minerals

synonym : saltwater, brine, ocean water

(1) **seawater** pollution, (2) **seawater** bacteria

The desalination plant turned **seawater** into drinking water through a complex process.

bypass

n. an alternative road, channel, pipe, or connection that allows flow while the main one is closed or obstructed;
(verb) to go past or round

(1) gastric **bypass** operation, (2) **bypass** circuit

This patient must undergo **bypass** surgery.

nuclear

adj. of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy

synonym : atomic

(1) **nuclear** fusion, (2) use of **nuclear** power

Many countries have now agreed to a treaty banning the use of **nuclear** weapons.

constantly

adv. all the time

synonym : continuously, always, frequently

(1) a **constantly** innovative enterprise, (2) a **constantly** varying mind

The mobile application industry is **constantly** changing.

rethink

v. to consider again a plan, idea, etc., especially to change it

synonym : reexplore, review, reconsider

(1) **rethink** a marketing plan, (2) **rethink** the role of the manager

We have to **rethink** our company's product lineup for further growth.

unlikely

adj. not probable or likely to happen

synonym : doubtful, questionable, far-fetched

(1) **unlikely** event, (2) it is **unlikely** that he would win the game

The passage of the bill is **unlikely**.

plain

adj. without being decorated in any way; (Noun) a vast expanse of flat land with few trees

synonym : basic, straight, bare

(1) **plain** answer, (2) delta **plain**

The lowest lowland region is mostly flat **plain**.

sight

n. the ability to see; anything that is seen

synonym : vision, spectacle, view

(1) an unexpected **sight**, (2) dull **sight**

Many famous **sights** are within walking distance.

discovery

n. the act or process of finding information, a place, or an object, or learning about something that was previously not known

synonym : finding, uncovering, detection

(1) a scientific **discovery**, (2) the great **discovery** of the

century

Her research team made an important **discovery**.

achieve

v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

synonym: accomplish, attain, reach

(1) **achieve** success, (2) **achieve** milestones

I will work hard to **achieve** my goals and realize my dreams.

Session 2: Spelling

- | | |
|--------------------------|---|
| 1. an unexpected si__t | <i>n.</i> the ability to see; anything that is seen |
| 2. w__t per square meter | <i>n.</i> a standard unit for measuring electrical power |
| 3. electromagnetic va__e | <i>n.</i> a device for controlling the flow of a fluid or gas through a pipe or duct by means of a movable part that opens, closes, or restricts the opening |
| 4. se____er bacteria | <i>n.</i> water from the sea or ocean, typically containing salt and various other dissolved minerals |
| 5. network se__p | <i>n.</i> the arrangement or organization of something, often with a specific purpose or intention; a scheme or plan that is intended to deceive or trick someone |
| 6. mo____le behavior | <i>n.</i> a group of two or more atoms held together by attractive forces known as chemical bonds |
| 7. delta pl__n | <i>adj.</i> without being decorated in any way;
(Noun) a vast expanse of flat land with few trees |
| 8. un____ly event | <i>adj.</i> not probable or likely to happen |
| 9. de___e my position | <i>v.</i> to state or explain precisely the nature, scope, or meaning of something |
| 10. v__t desert | <i>adj.</i> enormous in size, number, amount, or quantity |

ANSWERS: 1. sight, 2. watt, 3. valve, 4. seawater, 5. setup, 6. molecule, 7. plain, 8. unlikely, 9. define, 10. vast

11. ac____e success *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
12. re____e a prisoner *v.* to set free or allow to escape from confinement
13. harmless ba____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
14. the in____on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
15. gastric by____s operation *n.* an alternative road, channel, pipe, or connection that allows flow while the main one is closed or obstructed; (verb) to go past or round
16. el____fy a manufacturing process *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
17. p__p a secret out of success *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
18. da____e assessment *v.* to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity

ANSWERS: 11. achieve, 12. release, 13. bacteria, 14. invention, 15. bypass, 16. electrify, 17. pump, 18. damage

19. re____k a marketing plan
v. to consider again a plan, idea, etc., especially to change it
20. ho___d on drugs
adj. being caught or caught up in something; curved down like an eagle's beak
21. use of nu____r power
adj. of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
22. sp____ic instructions
adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
23. a wire g__d
n. a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region
24. pay up____t
adj. frank and honest; (adverb) (of payment) in advance
25. da___e a relationship
v. to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
26. commercial j_t
n. a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
27. a tr____on of a culture
n. a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society

ANSWERS: 19. rethink, 20. hooked, 21. nuclear, 22. specific, 23. grid, 24. upfront, 25. damage, 26. jet, 27. tradition

28. a con_____ly innovative enterprise *adv.* all the time
29. se_____te video into chapter *v.* to force, take, or pull apart; mark as different
30. 30-w__t light bulb *n.* a standard unit for measuring electrical power
31. against tr_____on *n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
32. walk do_____ll to the beach *adv.* in a direction that is downward or from a higher to a lower point; in a progressively worse or deteriorating manner
33. 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
34. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
35. va__e control *n.* a device for controlling the flow of a fluid or gas through a pipe or duct by means of a movable part that opens, closes, or restricts the opening
36. s__n thread out of cotton *v.* to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
37. tr_____er power *v.* to move, pass, or change from one person, place, or situation to another

ANSWERS: 28. constantly, 29. separate, 30. watt, 31. tradition, 32. downhill, 33. circuit, 34. involve, 35. valve, 36. spin, 37. transfer

38. a sand p__e *n.* a collection of objects positioned one on top of another; a large sum of something, such as money
39. beam of el____ons *n.* a tiny particle with the negative electrical charge
40. bring my la____p *n.* a portable computer that is small enough to be carried around easily and used on your lap
41. chaotic env____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
42. ac____e milestones *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
43. pl__n answer *adj.* without being decorated in any way; (Noun) a vast expanse of flat land with few trees
44. se____te cream from milk *v.* to force, take, or pull apart; mark as different
45. ge____hy class *n.* a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth
46. sus____le alternative fuel *adj.* able to continue or be continued for a long time
47. s__t a mouthful of saliva *v.* to eject saliva or other liquid from the mouth
48. i_n channel *n.* an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons

ANSWERS: 38. pile, 39. electron, 40. laptop, 41. environment, 42. achieve, 43. plain, 44. separate, 45. geography, 46. sustainable, 47. spit, 48. ion

49. tu_____e aerofoil *n.* a machine that rotates to generate power from fluids such as water or gas
50. emissions of gre_____se gases *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
51. pathogenic ba_____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
52. office se__p *n.* the arrangement or organization of something, often with a specific purpose or intention; a scheme or plan that is intended to deceive or trick someone
53. by___s circuit *n.* an alternative road, channel, pipe, or connection that allows flow while the main one is closed or obstructed; (verb) to go past or round
54. the state of being we__d *adj.* extraordinary, unexpected, or difficult to explain
55. se_____er pollution *n.* water from the sea or ocean, typically containing salt and various other dissolved minerals
56. li_____m mining *n.* a soft, silvery-white metal that is highly reactive and used in batteries, alloy production, and medications for bipolar disorder
57. gl_____e level *n.* a type of sugar that is found in plants, especially fruit, and is an essential energy source in living things

ANSWERS: 49. turbine, 50. greenhouse, 51. bacteria, 52. setup, 53. bypass, 54. weird, 55. seawater, 56. lithium, 57. glucose

58. 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
59. economic ge_____hy *n.* a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth
60. the great di_____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
61. cr__e operator *n.* a large, tall machine used for moving heavy objects by suspending them from a beam or hook
62. a g__d design *n.* a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region
63. m__t down gold *v.* to turn from something solid into something soft or liquid as a result of heating
64. s__t a bullet *v.* to eject saliva or other liquid from the mouth
65. a we__d dress *adj.* extraordinary, unexpected, or difficult to explain
66. thin-and-light la___p *n.* a portable computer that is small enough to be carried around easily and used on your lap
67. tr_____er a file *v.* to move, pass, or change from one person, place, or situation to another

ANSWERS: 58. circuit, 59. geography, 60. discovery, 61. crane, 62. grid, 63. melt, 64. spit, 65. weird, 66. laptop, 67. transfer

68. met_____sm enzyme *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
69. suffer a se_____k *n.* an unfortunate happening that hinders or impedes; a reversal or check in progress
70. a dry ba_____y *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
71. gi__t trees *adj.* enormous; much bigger or more important than similar items usually are
72. preserve my gr_____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
73. de___e a word *v.* to state or explain precisely the nature, scope, or meaning of something
74. flow of el_____ons *n.* a tiny particle with the negative electrical charge
75. a mo___n image *adj.* in a liquid state as a result of being heated
76. sky_____er apartment house *n.* a very tall building, typically one in a city
77. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
78. p__p blood throughout the body *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities

ANSWERS: 68. metabolism, 69. setback, 70. battery, 71. giant, 72. gravity, 73. define, 74. electron, 75. molten, 76. skyscraper, 77. discovery, 78. pump

79. unf_____ely caught in a shower *adv.* by bad luck; unluckily
80. ba_____y charging *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
81. industry-sp_____ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
82. re____n the party *v.* to return to someone or something
83. re_____k the role of the manager *v.* to consider again a plan, idea, etc., especially to change it
84. el_____fy the audience *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
85. the local chamber of co_____ce *n.* the activity of buying and selling things, especially on a large scale
86. the to__r on a cliff *n.* a structure that is exceptionally high in proportion to its width and either forms part of a building or stands alone
87. re_____e CO2 into the air *v.* to set free or allow to escape from confinement
88. gra_____nal waves *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
89. in_____e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
90. even more unf_____ely *adv.* by bad luck; unluckily

ANSWERS: 79. unfortunately, 80. battery, 81. specific, 82. rejoin, 83. rethink, 84. electrify, 85. commerce, 86. tower, 87. release, 88. gravitational, 89. involve, 90. unfortunately

91. re___l air-to-air *v.* to put additional fuel into a plane, ship, car, etc.
92. mo___n lava *adj.* in a liquid state as a result of being heated
93. steel-framed sky_____er *n.* a very tall building, typically one in a city
94. gi__t tech company *adj.* enormous; much bigger or more important than similar items usually are
95. common in_____on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
96. hemoglobin met_____sm *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
97. it is un_____ly that he would win the game *adj.* not probable or likely to happen
98. 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
99. cr___e construction *n.* a large, tall machine used for moving heavy objects by suspending them from a beam or hook
100. a bell to___r *n.* a structure that is exceptionally high in proportion to its width and either forms part of a building or stands alone
101. a con_____ly varying mind *adv.* all the time
102. nu_____r fusion *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy

ANSWERS: 91. refuel, 92. molten, 93. skyscraper, 94. giant, 95. invention, 96. metabolism, 97. unlikely, 98. pile, 99. crane, 100. tower, 101. constantly, 102. nuclear

103. the attraction of gr____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
104. rechargeable lithium-i_n battery *n.* an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons
105. v__t majority *adj.* enormous in size, number, amount, or quantity
106. private j_t *n.* a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
107. re___l bombers in flight *v.* to put additional fuel into a plane, ship, car, etc.
108. fairly ty____l symptoms *adj.* having the usual characteristics or traits of a specific group of things
109. ho___d hair *adj.* being caught or caught up in something; curved down like an eagle's beak
110. exotic plants in a gre_____se *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
111. small mo____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
112. major se____k *n.* an unfortunate happening that hinders or impedes; a reversal or check in progress
113. m__t the ice *v.* to turn from something solid into something soft or liquid as a result of heating

ANSWERS: 103. gravity, 104. ion, 105. vast, 106. jet, 107. refuel, 108. typical, 109. hooked, 110. greenhouse, 111. molecule, 112. setback, 113. melt

114. principles of sus_____le
development *adj.* able to continue or be continued for a long time
115. ski do_____ll *adv.* in a direction that is downward or from a higher to a lower point; in a progressively worse or deteriorating manner
116. re____n their mother ship *v.* to return to someone or something
117. interstate co_____ce *n.* the activity of buying and selling things, especially on a large scale
118. an up_____t tone *adj.* frank and honest; (adverb) (of payment) in advance
119. s____n a top *v.* to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
120. tu_____e energy *n.* a machine that rotates to generate power from fluids such as water or gas
121. mic_____ic inquiry *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
122. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
123. li_____m carbonate *n.* a soft, silvery-white metal that is highly reactive and used in batteries, alloy production, and medications for bipolar disorder
124. dull si__t *n.* the ability to see; anything that is seen
125. gra_____nal energy *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)

ANSWERS: 114. sustainable, 115. downhill, 116. rejoin, 117. commerce, 118. upfront, 119. spin, 120. turbine, 121. microscopic, 122. environment, 123. lithium, 124. sight, 125. gravitational

126. ty____l leader

adj. having the usual characteristics or traits of a specific group of things

127. blood gl____e test

n. a type of sugar that is found in plants, especially fruit, and is an essential energy source in living things

128. mic____ic analysis

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

ANSWERS: 126. typical, 127. glucose, 128. microscopic

Session 3: Fill in the Blanks

1. The _____ for the conference was impressive and professional.
n. the arrangement or organization of something, often with a specific purpose or intention; a scheme or plan that is intended to deceive or trick someone

2. This artwork is _____ of her work.
adj. having the usual characteristics or traits of a specific group of things

3. The _____ on the pipeline was leaking, so maintenance had to shut it off to make repairs.
n. a device for controlling the flow of a fluid or gas through a pipe or duct by means of a movable part that opens, closes, or restricts the opening

4. The government should do more to support environmentally _____ agriculture.
adj. able to continue or be continued for a long time

5. I will work hard to _____ my goals and realize my dreams.
v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

6. Many countries have now agreed to a treaty banning the use of _____ weapons.
adj. of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy

7. After the battle, the soldier managed to _____ his unit.
v. to return to someone or something

ANSWERS: 1. setup, 2. typical, 3. valve, 4. sustainable, 5. achieve, 6. nuclear, 7. rejoin

8. _____ batteries are commonly used in laptops, smartphones, and electric vehicles.
- n.* a soft, silvery-white metal that is highly reactive and used in batteries, alloy production, and medications for bipolar disorder
9. The team experienced a _____ when their star player was injured during the game.
- n.* an unfortunate happening that hinders or impedes; a reversal or check in progress
10. The construction workers used a _____ to lift the heavy beams.
- n.* a large, tall machine used for moving heavy objects by suspending them from a beam or hook
11. Our plane stopped in the country to _____.
- v.* to put additional fuel into a plane, ship, car, etc.
12. The 50-floor _____ loomed over the city, dwarfing the other buildings.
- n.* a very tall building, typically one in a city
13. The wind _____ were spinning rapidly, generating clean energy for the nearby town.
- n.* a machine that rotates to generate power from fluids such as water or gas
14. The treatments were done but, _____ were unsuccessful.
- adv.* by bad luck; unluckily
15. The product developed through years of research continues to _____ the market.
- v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

ANSWERS: 8. Lithium-ion, 9. setback, 10. crane, 11. refuel, 12. skyscraper, 13. turbines, 14. unfortunately, 15. electrify

16. She _____ the money from her savings account to her checking account.
v. to move, pass, or change from one person, place, or situation to another
17. It is a _____ in many families to have a big Thanksgiving dinner with all their relatives.
n. a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
18. The lowest lowland region is mostly flat _____.
adj. without being decorated in any way; (Noun) a vast expanse of flat land with few trees
19. Her resistance _____ under his persuasion.
v. to turn from something solid into something soft or liquid as a result of heating
20. The _____ effect is a phenomenon that happens naturally.
n. a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
21. 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
22. We have to _____ our company's product lineup for further growth.
v. to consider again a plan, idea, etc., especially to change it
23. My computer has been acting _____ recently.
adj. extraordinary, unexpected, or difficult to explain

ANSWERS: 16. transferred, 17. tradition, 18. plain, 19. melted, 20. greenhouse, 21. specific, 22. rethink, 23. weird

24. This company has invested heavily in Internet _____.
- n.* the activity of buying and selling things, especially on a large scale
25. 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
26. The increased concentrat____ of hydrogen ions in an aqueous solution makes it more acidic.
- n.* an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons
27. I need to finish this report by tonight, so I'll be working on my _____ all day.
- n.* a portable computer that is small enough to be carried around easily and used on your lap
28. Every human is responsible for taking care of the Earth's _____.
- n.* the natural world such as air, water, and land in which humans, animals, and plants live
29. This patient must undergo _____ surgery.
- n.* an alternative road, channel, pipe, or connection that allows flow while the main one is closed or obstructed; (verb) to go past or round
30. The _____ force of the black hole was so strong that nothing, not even light, could escape.
- adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
31. _____ prevalent in hospitals are often resistant to antibiotics.
- n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

ANSWERS: 24. commerce, 25. separate, 26. ion, 27. laptop, 28. environment, 29. bypass, 30. gravitational, 31. Bacteria

32. The ____ flew over the ocean at high speed, reaching its destination in hours.
n. a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
33. My son was _____ on the Internet.
adj. being caught or caught up in something; curved down like an eagle's beak
34. The tornado is _____ across the countryside, destroying everything in its path.
v. to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
35. To advance this discussion, we must _____ "success" rigorously.
v. to state or explain precisely the nature, scope, or meaning of something
36. She tried to ____ out the gum that she had been chewing.
v. to eject saliva or other liquid from the mouth
37. She is a _____ of strength for our team in trouble.
n. a structure that is exceptionally high in proportion to its width and either forms part of a building or stands alone
38. He was alert and could not ____ any critical information out of him.
v. to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
39. Many famous _____ are within walking distance.
n. the ability to see; anything that is seen

ANSWERS: 32. jet, 33. hooked, 34. spinning, 35. define, 36. spit, 37. tower, 38. pump, 39. sights

40. The shape of the DNA _____ is a double helix.
- n.* a group of two or more atoms held together by attractive forces known as chemical bonds
41. During the surgery, the doctor had to be extremely cautious not to _____ a blood vessel.
- v.* to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
42. She did well on her _____ exam.
- n.* a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth
43. _____ pattern roads often appear in urban areas.
- n.* a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region
44. The animal rights group worked to _____ the dolphins back into the wild.
- v.* to set free or allow to escape from confinement
45. Better sleep leads to increased _____.
- n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
46. He was very _____ with him about his intentions.
- adj.* frank and honest; (adverb) (of payment) in advance
47. The family's finances have been going _____ since they lost their main source of income.
- adv.* in a direction that is downward or from a higher to a lower point; in a progressively worse or deteriorating manner

ANSWERS: 40. molecule, 41. damage, 42. geography, 43. Grid, 44. release, 45. metabolism, 46. upfront, 47. downhill

48. The passage of the bill is _____.

adj. not probable or likely to happen

49. Inspectors noticed _____ cracks in the submarine's hull.

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

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

n. a tiny particle with the negative electrical charge

51. The investigation _____ several government agencies and is expected to take several months.

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

52. A _____ audience viewed the broadcast.

adj. enormous in size, number, amount, or quantity

53. Necessity is the mother of _____.

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

54. 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

55. Her research team made an important _____.

n. the act or process of finding information, a place, or an object, or learning about something that was previously not known

ANSWERS: 48. unlikely, 49. microscopic, 50. electron, 51. involves, 52. vast, 53. invention, 54. circuit, 55. discovery

56. Several hectares of land are needed to generate more than 1-mega_____ solar power.

n. a standard unit for measuring electrical power

57. The engine did not start because the _____ was flat.

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

58. The mobile application industry is _____ changing.

adv. all the time

59. The desalination plant turned _____ into drinking water through a complex process.

n. water from the sea or ocean, typically containing salt and various other dissolved minerals

60. 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

61. The astronaut felt weightless in space due to the absence of _____.

n. the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn

62. The _____ jets gradually dominate the world's airlines.

adj. enormous; much bigger or more important than similar items usually are

63. The _____ metal was poured into the mold.

adj. in a liquid state as a result of being heated

ANSWERS: 56. watt, 57. battery, 58. constantly, 59. seawater, 60. piles, 61. gravity, 62. giant, 63. molten

64. The doctor injected _____ into his patient's veins.

- n.* a type of sugar that is found in plants, especially fruit, and is an essential energy source in living things

ANSWERS: 64. glucose