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# Vocabulary Builder Reference from...

TED-Ed: How much electricity does it take to power the world? | TED Talk https://www.ted.com/talks/ted\_ed\_how\_much\_electric ity\_does\_it\_take\_to\_power\_the\_world



# All Words

#### **IMPORTANT**

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# **Session 1: Word List**

flip

v. to turn over into a different position quickly; to throw or toss with a light motion

*synonym*: throw, jump

(1) flip over the pork chop, (2) flip a coin

He **flipped** when he heard that he had been accepted into the university.

coal

 a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat

synonym: ember

(1) a **coal-fired** ship, (2) construction of new **coal** plants We combust **coal** and other fossil fuels to generate electricity.

**furnace** 

 an enclosed chamber for heating metal or glass to very high temperatures

*synonym*: incinerator

(1) electrical **furnace**, (2) gas-fired **furnace**In the **furnace**, the metal gleamed with radiance.

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.

#### turbine

 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.

#### 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.

## prop

a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something

synonym: support, buttress, column

(1) emotional prop, (2) prop stick

We have finally lost our last prop.

#### cable

 a set of wires covered by plastic or rubber that carries electricity, phone signals, etc.; a solid thick rope made of twisted hemp or steel wire

synonym: wire, cord, rope

(1) cable television, (2) coaxial cable

This system uses submarine **cables** to exchange information between continents.

#### countless

adj. too numerous to be counted or very many synonym: innumerable, myriad, numerous

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(1) **countless** hours, (2) answer **countless** questions There are **countless** methods for dealing with stress.

#### 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.

# tricky

joule

adj. requiring care and skill because challenging to do or deal with

synonym: thorny, problematic, crafty

- tricky problem, (2) a tricky recipe to follow
  we have discussed the entirety of this tricky problem.
- n. the unit of measurement for energy in the International System of Units (SI), equal to the work done by a force of one newton when its point of application moves one meter in the direction of the force

synonym: calorie

(1) measure energy in joules, (2) joule heatingA 60-watt light bulb uses 60 joules of energy per second.

## 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.

## trillion

n. the number 1,000,000,000,000; a million million

(1) **trillion** cubic feet, (2) many **trillions** of dollars One light year is nearly 6 **trillion** miles.

#### reliable

adj. worthy of being relied on; trustworthysynonym: dependable, trustworthy, dedicated

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(1) **reliable** access, (2) guarantee **reliable** delivery Trains are **reliable**, inexpensive, and ideal for long-distance travel.

#### industrialize

- v. to organize the production of something into an industry synonym: motorize
- (1) **industrialize** service, (2) **industrialized** textile production

The nations of South East Asia will quickly **industrialize** and catch up with the West.

grid

 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.

fossil

 any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock

synonym: relic, remnant, antediluvian

- (1) burning of **fossil** fuels, (2) a **fossil** leaf It was the **fossil** of a dinosaur tooth.
- a substance that is typically burned to generate heat or energy

synonym: energy, power, gas

(1) biomass fuel, (2) smokeless fuel

The **fuel** scarcity most severely impacted the manufacturing sector

emit

fuel

v. to give off or send out something such as light, heat, sound, gas, etc.

synonym: give off, radiate, expel

(1) **emit** a gamma ray, (2) **emit** air pollution

During the unloading, the container box **emits** a clicking sound.

#### sustainable

- adj. able to continue or be continued for a long time synonym: continuable, endurable, tolerable
- (1) **sustainable** alternative fuel, (2) principles of sustainable development

The government should do more to support environmentally sustainable agriculture.

#### greenhouse

- 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.

#### contribute

- to give something, especially money or goods, to provide or achieve something together with other people synonym: donate, devote, commit
- (1) **contribute** a large sum of money to the fund,
- (2) **contribute** to society

Government workers cannot **contribute** to political campaigns.

#### eliminate

- to remove or get rid of someone or something synonym: wipe out, destroy, eradicate
- (1) **eliminate** contestants, (2) **eliminate** sexual barriers We can **eliminate** this possibility from those consumptions.

#### emission

- the act of production or sending out gas, heat, light, etc. synonym: emanation, radiation, discharge
- (1) global **emissions** of greenhouse gases, (2) the emission of light

There are five distinct **emissions** at five unique wavelengths.

#### entirely

adv. completely

*synonym*: completely, fully, totally

(1) **entirely** satisfied with the meal, (2) he was **entirely** to blame

Later, his claim was found to be **entirely** false.

#### industrious

adj. hardworking, diligent, and persistent in effort synonym: diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student He was known to be very **industrious** and would often work late into the night.

#### 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.

#### industrial

adj. of or relating to or resulting from industrysynonym: manufacturing, mechanical

(1) beginning of the **industrial** revolution, (2) **industrial** alcohol

**Industrial** design has become more focused on human nature aspect than ever before.

#### process

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

*synonym*: procedure, method, system

(1) **process** improvement, (2) decision-making **process**The **process** for applying for a visa can be lengthy and

complicated.

#### triple

adj. consisting of three items or people; three times as great or many

synonym: threefold

(1) a triple mirror, (2) triple digits

His coach is a **triple** Olympic champion.

#### convenient

adj. useful, helpful, or quick to do synonym: timely, fortunate, suitable

(1) convenient way, (2) convenient location

The airport offers five **convenient** access routes.

# gap

 a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.

synonym: opening, lacuna, spread

(1) the **gap** between ideal and reality, (2) distance **gap** Many people are working together to close the gender **gap**.

#### sunshine

- n. the direct light and heat that comes from the sun synonym: sunlight, daylight, rays
- (1) warm **sunshine**, (2) morning **sunshine**The **sunshine** was so bright that I had to wear sunglasses to protect my eyes.

# sunlight

- n. the light emitted by the sun; the rays of the sun synonym: daylight, rays, sunshine
- (1) a glare of **sunlight**, (2) in direct **sunlight**Radiation from **sunlight** has a different wavelength.

#### transport

- a system for moving people or products from one location to another using automobiles, roads, and so on synonym: shipment, transit, conveyance
- (1) **transport** facilities, (2) access to public **transport** Enhanced rail **transportation** is crucial for our business.

#### **battery**

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.

## improve

v. to make or become better

synonym: enhance, ameliorate, enrich

(1) **improve** a process, (2) **improve** the test score We want to **improve** ties between our two countries.

#### infrastructure

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

synonym: foundation, framework

(1) IT infrastructure, (2) infrastructure cost

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

#### distance

n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

synonym: space, gap, span

(1) driving distance, (2) social distance

The marathon runner covered a long **distance** in a short amount of time.

#### 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.

#### fission

 n. the splitting of an atomic nucleus into two or smaller nuclei, releasing a large amount of energy; the process of breaking something into smaller parts or pieces

synonym: splitting, division, separation

(1) heavy-ion fission, (2) atomic fission

Nuclear **fission** is the process of splitting an atom into two smaller ones.

#### carbon

- a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
- (1) carbon dioxide, (2) carbon emission

Trees absorb **carbon** dioxide and give off oxygen.

#### intermittent

adj. occurring at irregular intervals; not continuous or steady;stopping and starting periodically; sporadic

synonym: sporadic, irregular, periodic

(1) intermittent fever, (2) intermittent Wi-Fi

The **intermittent** rain made it difficult to plan a picnic.

# dispose

 to put things or people in a particular manner or position; to incline someone towards a specific activity or mood; throw or cast away

synonym: get rid of, arrange, set

(1) **dispose** battleships for a battle, (2) **dispose** of a used product

Generally speaking, the child is innately **disposed** to learn a language.

# possibility

- n. a chance that something may happen or be truesynonym: chance, prospect, likelihood
- (1) **possibility** for growth, (2) **possibility** of a major earthquake

The **possibility** of getting the disease will drastically increase.

#### crack

v. to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking

synonym: snap, burst, break

(1) crack an eggshell, (2) a crack in a board

He that would eat the kernel must crack the nut.

#### **fusion**

the process of combining two or more things to form a single entity

synonym: merger, consolidation, amalgamation

(1) heat **fusion**, (2) **fusion** cuisine

Nuclear **fusion** is a process in which atomic nuclei combine to form heavier nuclei.

#### involve

 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.

# smashing

adj. very successful or impressive; causing something to be broken or destroyed

synonym: great, wonderful, breaking

(1) a **smashing** blow, (2) give **smashing** results

The band's new album was a **smashing** success, reaching the top of the charts.

atom

 the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

synonym: particle, element, fraction

(1) oxygen atom, (2) neutral hydrogen atoms

The outermost electron shell of an **atom** determines its chemical characteristics.

fuse

 a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

synonym: (verb) melt, (verb) blend

(1) **fuse** blows, (2) **fuse** with one another He has a short **fuse**.

**harness** 

v. to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object

synonym: rein in, control, (noun) belt

(1) **harness** a horse to a carriage, (2) put a **harness** on my pet

People have been exploring ways to **harness** natural forces and resources since ancient times.

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.

accident

an unfortunate event, especially one causing damage or injury

synonym: calamity, casualty, chance

(1) cause an **accident**, (2) injury in a car **accident** The **accident** partially destroyed my vehicle.

radioactive

adj. emitting powerful and dangerous energy when the nuclei (= central parts) of atoms are broken up

synonym: dangerous, contaminated, emanating

(1) radioactive decay, (2) radioactive isotope

The **radioactive** material was carefully stored in a lead-lined container.

#### associate

v. to mentally connect someone or something with someone or something else

synonym: tie in, link, consociate

(1) **associate** alcohol with gambling, (2) **associate** with people widely

The majority of consumers **associate** this brand with quality.

#### renewable

adj. capable of being renewed, extended, or replaced synonym: sustainable, replaceable

renewable energy, (2) renewable subscriptions
 The production of renewable fuels requires massive volumes of fresh water.

# breakthrough

 a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem

synonym: advance, progress, innovation

(1) **breakthrough** in the negotiations, (2) **breakthrough** discovery

A technique called deep learning has led to **breakthroughs** in Al.

#### revolutionize

v. to bring about a complete or radical change in something, often through the introduction of new methods or ideas

synonym: transform, innovate, modernize

(1) **revolutionize** the industry, (2) **revolutionize** the technology

The invention of the smartphone **revolutionized** the way we communicate with each other.

#### sustain

v. to supply enough of what somebody or something needs to survive or exist; to accept as valid

synonym: maintain, nurture, support

(1) **sustain** a good relationship with him, (2) **sustain** a wellness lifestyle



# **Session 2: Spelling**

1.	nur fusion	adj.	of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
2.	cae television	n.	a set of wires covered by plastic or rubber that carries electricity, phone signals, etc.; a solid thick rope made of twisted hemp or steel wire
3.	coss hours	adj.	too numerous to be counted or very many
4.	revize the technology	v.	to bring about a complete or radical change in something, often through the introduction of new methods or ideas
5.	put a has on my pet	ν.	to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object
6.	indize service	v.	to organize the production of something into an industry
7.	conte a large sum of money to the fund	v.	to give something, especially money or goods, to provide or achieve something together with other people
8.	die of a used product	<i>v</i> .	to put things or people in a particular manner or position; to incline someone towards a specific activity or mood; throw or cast away

ANSWERS: 1. nuclear, 2. cable, 3. countless, 4. revolutionize, 5. harness, 6. industrialize, 7. contribute, 8. dispose

9.	injury in a car acnt	n.	an unfortunate event, especially one causing damage or injury
10.	posty of a major earthquake	n.	a chance that something may happen or be true
11.	s_n a top	<i>v</i> .	to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
12.	morning sune	n.	the direct light and heat that comes from the sun
13.	cr_k an eggshell	<i>v</i> .	to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
14.	tron cubic feet	n.	the number 1,000,000,000,000; a million million
15.	fun cuisine	n.	the process of combining two or more things to form a single entity
16.	social dice	n.	the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
17.	a try recipe to follow	adj.	requiring care and skill because challenging to do or deal with
18.	infure cost	n.	the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
19.	f_p over the pork chop	ν.	to turn over into a different position quickly; to throw or toss with a light motion

ANSWERS: 9. accident, 10. possibility, 11. spin, 12. sunshine, 13. crack, 14. trillion, 15. fusion, 16. distance, 17. tricky, 18. infrastructure, 19. flip

20.	bay charging	n.	a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
21.	trrt facilities	n.	a system for moving people or products from one location to another using automobiles, roads, and so on
22.	gas-fired fue	n.	an enclosed chamber for heating metal or glass to very high temperatures
23.	measure energy in joes	n.	the unit of measurement for energy in the International System of Units (SI), equal to the work done by a force of one newton when its point of application moves one meter in the direction of the force
24.	atomic fin	n.	the splitting of an atomic nucleus into two or smaller nuclei, releasing a large amount of energy; the process of breaking something into smaller parts of pieces
25.	radve decay	adj.	emitting powerful and dangerous energy when the nuclei (= central parts of atoms are broken up
26.	sun a wellness lifestyle	<i>v</i> .	to supply enough of what somebody or something needs to survive or exist; to accept as valid
27.	ree a prisoner	<i>v</i> .	to set free or allow to escape from confinement
28.	radve isotope	adj.	emitting powerful and dangerous energy when the nuclei (= central parts of atoms are broken up

ANSWERS: 20. battery, 21. transport, 22. furnace, 23. joule, 24. fission, 25. radioactive, 26. sustain, 27. release, 28. radioactive

29.	a smng blow	adj.	very successful or impressive; causing something to be broken or destroyed
30.	can emission	n.	a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
31.	pp stick	n.	a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something
32.	distance g_p	n.	a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
33.	rele access	adj.	worthy of being relied on; trustworthy
34.	ine a lot of paperwork	<i>v</i> .	to include or affect someone or something as a necessary part of something else
35.	a gd 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
36.	elfy a manufacturing process	ν.	to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
37.	warm sune	n.	the direct light and heat that comes from the sun

ANSWERS: 29. smashing, 30. carbon, 31. prop, 32. gap, 33. reliable, 34. involve, 35. grid, 36. electrify, 37. sunshine

38.	biomass fI	n.	a substance that is typically burned to generate heat or energy
39.	decision-making prs	n.	a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
40.	answer coss questions	adj.	too numerous to be counted or very many
41.	a glare of suht	n.	the light emitted by the sun; the rays of the sun
42.	sun a good relationship with him	ν.	to supply enough of what somebody or something needs to survive or exist; to accept as valid
43.	give smng results	adj.	very successful or impressive; causing something to be broken or destroyed
44.	et a gamma ray	v.	to give off or send out something such as light, heat, sound, gas, etc.
45.	smokeless fl	n.	a substance that is typically burned to generate heat or energy
46.	intent fever	adj.	occurring at irregular intervals; not continuous or steady; stopping and starting periodically; sporadic
47.	elfy the audience	ν.	to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

ANSWERS: 38. fuel, 39. process, 40. countless, 41. sunlight, 42. sustain, 43. smashing, 44. emit, 45. fuel, 46. intermittent, 47. electrify

- 48. p\_p a secret out of success
- 49. di\_\_\_e battleships for a battle
- 50. f e with one another
- 51. im e a process
- 52. el\_\_\_\_te contestants
- 53. driving di\_\_\_\_ce
- 54. el\_\_\_\_te sexual barriers
- 55. tr\_\_\_y problem
- 56. tr\_\_\_e digits
- 57. f\_\_p a coin

- 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
- v. to put things or people in a particular manner or position; to incline someone towards a specific activity or mood; throw or cast away
- n. a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat
- v. to make or become better
- v. to remove or get rid of someone or something
- n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
- v. to remove or get rid of someone or something
- adj. requiring care and skill because challenging to do or deal with
- adj. consisting of three items or people; three times as great or many
- v. to turn over into a different position quickly; to throw or toss with a light motion

ANSWERS: 48. pump, 49. dispose, 50. fuse, 51. improve, 52. eliminate, 53. distance, 54. eliminate, 55. tricky, 56. triple, 57. flip

58.	electrical fue	n.	an enclosed chamber for heating metal or glass to very high temperatures
59.	breugh discovery	n.	a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
60.	conte to society	<i>v</i> .	to give something, especially money or goods, to provide or achieve something together with other people
61.	ree CO2 into the air	<i>v</i> .	to set free or allow to escape from confinement
62.	aste with people widely	ν.	to mentally connect someone or something with someone or something else
63.	enly satisfied with the meal	adv.	completely
64.	tue energy	n.	a machine that rotates to generate power from fluids such as water or gas
65.	revize the industry	<i>v</i> .	to bring about a complete or radical change in something, often through the introduction of new methods or ideas
66.	IT infure	n.	the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
67.	fe blows	n.	a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

ANSWERS: 58. furnace, 59. breakthrough, 60. contribute, 61. release, 62. associate, 63. entirely, 64. turbine, 65. revolutionize, 66. infrastructure, 67. fuse

68.	oxygen am	n.	the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
69.	tue aerofoil	n.	a machine that rotates to generate power from fluids such as water or gas
70.	principles of susle development	adj.	able to continue or be continued for a long time
71.	exotic plants in a grese	n.	a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
72.	rele energy	adj.	capable of being renewed, extended, or replaced
73.	indized textile production	<i>v</i> .	to organize the production of something into an industry
74.	a tre mirror	adj.	consisting of three items or people; three times as great or many
75.	in direct suht	n.	the light emitted by the sun; the rays of the sun
76.	a cr_k in a board	ν.	to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
77.	the emon of light	n.	the act of production or sending out gas, heat, light, etc.
78.	wt per square meter	n.	a standard unit for measuring electrical power
79.	30-wt light bulb	n.	a standard unit for measuring electrical power

ANSWERS: 68. atom, 69. turbine, 70. sustainable, 71. greenhouse, 72. renewable, 73. industrialize, 74. triple, 75. sunlight, 76. crack, 77. emission, 78. watt, 79. watt

80.	breugh in the negotiations	n.	a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
81.	emissions of grese gases	n.	a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
82.	ine a high degree of risk	ν.	to include or affect someone or something as a necessary part of something else
83.	use of nur power	adj.	of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
84.	global emons of greenhouse gases	n.	the act of production or sending out gas, heat, light, etc.
85.	indus worker	adj.	hardworking, diligent, and persistent in effort
86.	a wire gd	n.	a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical powe is distributed throughout a region
87.	flow of elons	n.	a tiny particle with the negative electrical charge
88.	access to public trrt	n.	a system for moving people or products from one location to another using automobiles, roads, and so on
89.	guarantee rele delivery	adj.	worthy of being relied on; trustworthy

ANSWERS: 80. breakthrough, 81. greenhouse, 82. involve, 83. nuclear, 84. emission, 85. industrious, 86. grid, 87. electron, 88. transport, 89. reliable

90.	connt location	adj.	useful, helpful, or quick to do
91.	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
92.	has a horse to a carriage	ν.	to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object
93.	burning of foI fuels	n.	any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
94.	intent Wi-Fi	adj.	occurring at irregular intervals; not continuous or steady; stopping and starting periodically; sporadic
95.	indus student	adj.	hardworking, diligent, and persistent in effort
96.	et air pollution	<i>v</i> .	to give off or send out something such as light, heat, sound, gas, etc.
97.	beginning of the indal revolution	adj.	of or relating to or resulting from industry
98.	connt way	adj.	useful, helpful, or quick to do
99.	neutral hydrogen ams	n.	the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

ANSWERS: 90. convenient, 91. pump, 92. harness, 93. fossil, 94. intermittent, 95. industrious, 96. emit, 97. industrial, 98. convenient, 99. atom

100. a dry bay	n.	a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
101. many trons of dollars	n.	the number 1,000,000,000,000; a million million
102. the g_p between ideal and reality	n.	a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
103. aste alcohol with gambling	v.	to mentally connect someone or something with someone or something else
104. a foI leaf	n.	any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
105. indal alcohol	adj.	of or relating to or resulting from industry
106. heavy-ion fin	n.	the splitting of an atomic nucleus into two or smaller nuclei, releasing a large amount of energy; the process of breaking something into smaller parts or pieces
107. sn thread out of cotton	v.	to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
108. prs improvement	n.	a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other

ANSWERS: 100. battery, 101. trillion, 102. gap, 103. associate, 104. fossil, 105. industrial, 106. fission, 107. spin, 108. process

dairy products

109. can dioxide	n.	a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
110. heat fun	n.	the process of combining two or more things to form a single entity
111. rele subscriptions	adj.	capable of being renewed, extended, or replaced
112. susle alternative fuel	adj.	able to continue or be continued for a long time
113. ime the test score	v.	to make or become better
114. cause an acnt	n.	an unfortunate event, especially one causing damage or injury
115. coaxial cae	n.	a set of wires covered by plastic or rubber that carries electricity, phone signals, etc.; a solid thick rope made of twisted hemp or steel wire
116. beam of elons	n.	a tiny particle with the negative electrical charge
117. posty for growth	n.	a chance that something may happen or be true
118. joe heating	n.	the unit of measurement for energy in the International System of Units (SI), equal to the work done by a force of one newton when its point of application moves one meter in the direction of the force
119. construction of new cI plants	n.	a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat

ANSWERS: 109. carbon, 110. fusion, 111. renewable, 112. sustainable, 113. improve, 114. accident, 115. cable, 116. electron, 117. possibility, 118. joule, 119. coal

120. he was en\_\_\_\_ly to blame

adv. completely

121. a c\_\_I-fired ship

 a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat

122. emotional p\_\_p

n. a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something

ANSWERS: 120. entirely, 121. coal, 122. prop

# **Session 3: Fill in the Blanks**

1.	The for applying for a visa can be lengthy and complicated.
n.	a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
2.	The government should do more to support environmentally agriculture.
adj	able to continue or be continued for a long time
3.	We want to ties between our two countries.
v.	to make or become better
4.	The invention of the smartphone the way we communicate with each other.
v.	to bring about a complete or radical change in something, often through the introduction of new methods or ideas
5.	He was known to be very and would often work late into the night.
adj	hardworking, diligent, and persistent in effort
3.	Radiation from has a different wavelength.
n.	the light emitted by the sun; the rays of the sun
7.	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
	SWERS: 1. process, 2. sustainable, 3. improve, 4. revolutionized, 5. industrious, 6. nlight, 7. nuclear

Vocab-Builder Ref from "TED-Ed: How much electricity does it take to power the world? | TED Talk" (61 words)

Vocab-Builder Ref from "TED-Ed: How much electricity does it take to power the world? | TED Talk" (61 words)

sunshine, 30. furnace,

31.	The partially destroyed my vehicle.
n.	an unfortunate event, especially one causing damage or injury
32.	The marathon runner covered a long in a short amount of time.
n.	the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
33.	The rain made it difficult to plan a picnic.
adj	occurring at irregular intervals; not continuous or steady; stopping and starting periodically; sporadic
34.	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
35.	The material was carefully stored in a lead-lined container.
adj	emitting powerful and dangerous energy when the nuclei (= central parts) of atoms are broken up
36.	Trains are inexpensive, and ideal for long-distance travel.
adj	worthy of being relied on; trustworthy
37.	Trees absorb dioxide and give off oxygen.
n.	a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
38.	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
	SWERS: 31. accident, 32. distance, 33. intermittent, 34. greenhouse, 35. ioactive, 36. reliable, 37. carbon, 38. Grid

ANSWERS: 39. breakthroughs, 40. emissions, 41. possibility, 42. watt, 43. eliminate, 44. transportation, 45. convenient, 46. spinning

ANSWERS: 47. fission, 48. associate, 49. tricky, 50. gap, 51. countless, 52. infrastructure, 53. electron, 54. entirely, 55. turbines

ANSWERS: 56. renewable, 57. atom, 58. electrify, 59. emits, 60. cables, 61. triple