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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\\_electricity\\_does\\_it\\_take\\_to\\_power\\_the\\_world](https://www.ted.com/talks/ted_ed_how_much_electricity_does_it_take_to_power_the_world)

### Advanced Words Only

#### IMPORTANT

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## Session 1: Word List

### 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.

### joule

*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** heating

A 60-watt light bulb uses 60 **joules** of energy per second.

### 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.

## emit

*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.

## 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.

## 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.

## 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.

## 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.

## fuse

*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

*synonym*: (verb) melt, (verb) blend

(1) **fuse** blows, (2) **fuse** with one another

He has a short **fuse**.

## 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.

## Session 2: Spelling

1. e\_\_t air pollution  
*v.* to give off or send out something such as light, heat, sound, gas, etc.
2. atomic fi\_\_\_\_n  
*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
3. measure energy in jo\_\_es  
*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
4. heavy-ion fi\_\_\_\_n  
*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
5. e\_\_t a gamma ray  
*v.* to give off or send out something such as light, heat, sound, gas, etc.
6. ind\_\_\_\_\_ize service  
*v.* to organize the production of something into an industry
7. ind\_\_\_\_\_us student  
*adj.* hardworking, diligent, and persistent in effort
8. int\_\_\_\_\_ent Wi-Fi  
*adj.* occurring at irregular intervals; not continuous or steady; stopping and starting periodically; sporadic

ANSWERS: 1. emit, 2. fission, 3. joule, 4. fission, 5. emit, 6. industrialize, 7. industrious, 8. intermittent

9. ind\_\_\_\_\_us worker *adj.* hardworking, diligent, and persistent in effort
10. rev\_\_\_\_\_ize the industry *v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas
11. a sm\_\_\_\_\_ng blow *adj.* very successful or impressive; causing something to be broken or destroyed
12. f\_\_e 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
13. int\_\_\_\_\_ent fever *adj.* occurring at irregular intervals; not continuous or steady; stopping and starting periodically; sporadic
14. 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
15. 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
16. give sm\_\_\_\_\_ng results *adj.* very successful or impressive; causing something to be broken or destroyed
17. f\_\_e with one another *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: 9. industrious, 10. revolutionize, 11. smashing, 12. fuse, 13. intermittent, 14. electrify, 15. electrify, 16. smashing, 17. fuse

18. rev\_\_\_\_\_ize the technology      *v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas
19. ind\_\_\_\_\_ized textile production      *v.* to organize the production of something into an industry
20. jo\_\_e 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

ANSWERS: 18. revolutionize, 19. industrialize, 20. joule

## Session 3: Fill in the Blanks

1. 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
2. The band's new album was a \_\_\_\_\_ success, reaching the top of the charts.  
*adj.* very successful or impressive; causing something to be broken or destroyed
3. During the unloading, the container box \_\_\_\_\_ a clicking sound.  
*v.* to give off or send out something such as light, heat, sound, gas, etc.
4. Nuclear \_\_\_\_\_ is the process of splitting an atom into two smaller ones.  
*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
5. The nations of South East Asia will quickly \_\_\_\_\_ and catch up with the West.  
*v.* to organize the production of something into an industry
6. A 60-watt light bulb uses 60 \_\_\_\_\_ of energy per second.  
*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
7. He was known to be very \_\_\_\_\_ and would often work late into the night.  
*adj.* hardworking, diligent, and persistent in effort

ANSWERS: 1. revolutionized, 2. smashing, 3. emits, 4. fission, 5. industrialize, 6. joules, 7. industrious

8. He has a short \_\_\_\_\_.

- 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

9. 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

10. The \_\_\_\_\_ rain made it difficult to plan a picnic.

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

ANSWERS: 8. fuse, 9. electrify, 10. intermittent