

# Englist.me



## Vocabulary Builder Reference from...

Lieven Scheire: How quantum mechanics explains global warming | TED Talk

[https://www.ted.com/talks/lieven\\_scheire\\_how\\_quantum\\_mechanics\\_explains\\_global\\_warming](https://www.ted.com/talks/lieven_scheire_how_quantum_mechanics_explains_global_warming)

### Advanced Words Only

#### IMPORTANT

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## Session 1: Word List

### insulate

v. to protect something by interposing material that prevents heat, noise, electricity, etc.

*synonym* : isolate, protect, seclude

(1) **insulate** the room from sound, (2) **insulate** electricity  
We had our bedroom **insulated** before winter came.

### prism

n. a three-dimensional object with a triangular base and parallel sides, which refracts (= to bend something) light that passes through it, resulting in the separation and display of the colors of the visible spectrum; a metaphorical term used to describe a situation that reveals or illuminates various aspects or perspectives of a particular phenomenon or topic

*synonym* : crystal, polyhedron

(1) **prism** spectrometer, (2) a **prism** of viewpoints

The scientist used an optical **prism** to analyze the dispersion of light in the laboratory experiment.

### snatch

v. to take or grab something suddenly or quickly

*synonym* : grab, seize, capture

(1) **snatch** a hasty meal, (2) **snatch** up her purse

He **snatches** victory from the jaws of defeat in the game's final seconds.

## celestial

*adj.* relating to the sky or the heavens; of or like the sky or the heavens

*synonym*: heavenly, divine, ethereal

(1) **celestial** bliss, (2) **celestial** navigation

The **celestial** bodies in the night sky were beautiful to behold.

## 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.

## glowing

*adj.* highly enthusiastic; greatly praised

*synonym*: burning, bright, flaming

(1) **glowing** reviews, (2) **glowing** cheeks

The western sky was **glowing** pink.

## ultraviolet

*adj.* relating to or occupying the part of the spectrum beyond the violet end, especially radiation

*synonym*: black light, UV light, invisible light

(1) **ultraviolet** protection, (2) **ultraviolet** light

**Ultraviolet** radiation can cause skin damage if one is exposed for too long.

## presumptuous

*adj.* excessively bold or forward; taking liberties beyond what is appropriate or socially acceptable

*synonym*: arrogant, overconfident, presuming

(1) **presumptuous** behavior, (2) **presumptuous** attitude

It was **presumptuous** of him to assume he would be hired for the job without submitting a resume.

## hertz

*n.* the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals

*synonym*: frequency, cycles per second

(1) audio **hertz**, (2) tera- **hertz** radiation

The human ear can detect sounds with frequencies ranging from 20 to 20,000 **hertz**.

## flashlight

*n.* a portable electric light with a handle and a switch that can be turned on and off

*synonym*: torch, lamp, beacon

(1) **flashlight** beam, (2) **flashlight** batteries

He used a backup **flashlight** to find his way through the dark cave.

## lantern

*n.* a portable source of lighting, typically featuring a protective enclosure for the light source

*synonym*: lamp, beacon, flashlight

(1) candle **lantern**, (2) a **lantern** in the dark

The paper-covered **lantern** glowed softly in the darkness.

## wasteful

*adj.* characterized by excessive or unnecessary use or consumption; using resources or materials inefficiently or inappropriately, resulting in unnecessary waste or expense

*synonym*: uneconomical, extravagant, profligate

(1) **wasteful** practices, (2) **wasteful** habits

Buying new clothes every week is a **wasteful** use of money and resources.

## 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.

## Session 2: Spelling

1. ult\_\_\_\_\_et light *adj.* relating to or occupying the part of the spectrum beyond the violet end, especially radiation
2. a la\_\_\_\_\_n in the dark *n.* a portable source of lighting, typically featuring a protective enclosure for the light source
3. a pr\_\_m of viewpoints *n.* a three-dimensional object with a triangular base and parallel sides, which refracts (= to bend something) light that passes through it, resulting in the separation and display of the colors of the visible spectrum; a metaphorical term used to describe a situation that reveals or illuminates various aspects or perspectives of a particular phenomenon or topic
4. candle la\_\_\_\_\_n *n.* a portable source of lighting, typically featuring a protective enclosure for the light source
5. pre\_\_\_\_\_ous attitude *adj.* excessively bold or forward; taking liberties beyond what is appropriate or socially acceptable
6. ce\_\_\_\_\_al navigation *adj.* relating to the sky or the heavens; of or like the sky or the heavens
7. audio he\_\_z *n.* the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals

ANSWERS: 1. ultraviolet, 2. lantern, 3. prism, 4. lantern, 5. presumptuous, 6. celestial, 7. hertz

8. ult\_\_\_\_\_et protection *adj.* relating to or occupying the part of the spectrum beyond the violet end, especially radiation
9. e\_\_t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
10. gl\_\_\_\_\_g cheeks *adj.* highly enthusiastic; greatly praised
11. wa\_\_\_\_\_ul practices *adj.* characterized by excessive or unnecessary use or consumption; using resources or materials inefficiently or inappropriately, resulting in unnecessary waste or expense
12. wa\_\_\_\_\_ul habits *adj.* characterized by excessive or unnecessary use or consumption; using resources or materials inefficiently or inappropriately, resulting in unnecessary waste or expense
13. s\_\_t a bullet *v.* to eject saliva or other liquid from the mouth
14. fla\_\_\_\_\_ht batteries *n.* a portable electric light with a handle and a switch that can be turned on and off
15. s\_\_t a mouthful of saliva *v.* to eject saliva or other liquid from the mouth
16. ce\_\_\_\_\_al bliss *adj.* relating to the sky or the heavens; of or like the sky or the heavens
17. in\_\_\_\_\_te electricity *v.* to protect something by interposing material that prevents heat, noise, electricity, etc.
18. in\_\_\_\_\_te the room from sound *v.* to protect something by interposing material that prevents heat, noise, electricity, etc.

ANSWERS: 8. ultraviolet, 9. emit, 10. glowing, 11. wasteful, 12. wasteful, 13. spit, 14. flashlight, 15. spit, 16. celestial, 17. insulate, 18. insulate

19. fla\_\_\_\_\_ht beam *n.* a portable electric light with a handle and a switch that can be turned on and off
20. pr\_\_m spectrometer *n.* a three-dimensional object with a triangular base and parallel sides, which refracts (= to bend something) light that passes through it, resulting in the separation and display of the colors of the visible spectrum; a metaphorical term used to describe a situation that reveals or illuminates various aspects or perspectives of a particular phenomenon or topic
21. pre\_\_\_\_\_ous behavior *adj.* excessively bold or forward; taking liberties beyond what is appropriate or socially acceptable
22. tera-he\_\_z radiation *n.* the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals
23. sn\_\_\_h a hasty meal *v.* to take or grab something suddenly or quickly
24. e\_\_t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
25. sn\_\_\_h up her purse *v.* to take or grab something suddenly or quickly
26. gl\_\_\_\_\_g reviews *adj.* highly enthusiastic; greatly praised

ANSWERS: 19. flashlight, 20. prism, 21. presumptuous, 22. hertz, 23. snatch, 24. emit, 25. snatch, 26. glowing

## Session 3: Fill in the Blanks

1. \_\_\_\_\_ radiation can cause skin damage if one is exposed for too long.  
*adj.* relating to or occupying the part of the spectrum beyond the violet end, especially radiation
2. The western sky was \_\_\_\_\_ pink.  
*adj.* highly enthusiastic; greatly praised
3. The scientist used an optical \_\_\_\_\_ to analyze the dispersion of light in the laboratory experiment.  
*n.* a three-dimensional object with a triangular base and parallel sides, which refracts (= to bend something) light that passes through it, resulting in the separation and display of the colors of the visible spectrum; a metaphorical term used to describe a situation that reveals or illuminates various aspects or perspectives of a particular phenomenon or topic
4. The \_\_\_\_\_ bodies in the night sky were beautiful to behold.  
*adj.* relating to the sky or the heavens; of or like the sky or the heavens
5. She tried to \_\_\_\_\_ out the gum that she had been chewing.  
*v.* to eject saliva or other liquid from the mouth
6. He used a backup \_\_\_\_\_ to find his way through the dark cave.  
*n.* a portable electric light with a handle and a switch that can be turned on and off
7. We had our bedroom \_\_\_\_\_ before winter came.  
*v.* to protect something by interposing material that prevents heat, noise, electricity, etc.

ANSWERS: 1. Ultraviolet, 2. glowing, 3. prism, 4. celestial, 5. spit, 6. flashlight, 7. insulated

8. The human ear can detect sounds with frequencies ranging from 20 to 20,000 \_\_\_\_\_.
- n.* the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals
9. The paper-covered \_\_\_\_\_ glowed softly in the darkness.
- n.* a portable source of lighting, typically featuring a protective enclosure for the light source
10. He \_\_\_\_\_ victory from the jaws of defeat in the game's final seconds.
- v.* to take or grab something suddenly or quickly
11. It was \_\_\_\_\_ of him to assume he would be hired for the job without submitting a resume.
- adj.* excessively bold or forward; taking liberties beyond what is appropriate or socially acceptable
12. During the unloading, the container box \_\_\_\_\_ a clicking sound.
- v.* to give off or send out something such as light, heat, sound, gas, etc.
13. Buying new clothes every week is a \_\_\_\_\_ use of money and resources.
- adj.* characterized by excessive or unnecessary use or consumption; using resources or materials inefficiently or inappropriately, resulting in unnecessary waste or expense

ANSWERS: 8. hertz, 9. lantern, 10. snatches, 11. presumptuous, 12. emits, 13. wasteful