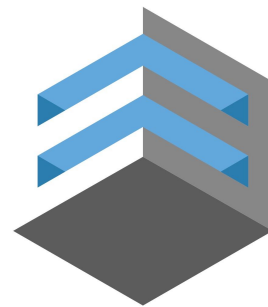


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Vocabulary Builder Reference from...

Zoe Pierrat: Earth's mysterious red glow, explained | TED Talk

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

Advanced Words Only

IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

Session 1: Word List

baffle

v. to bewilder or perplex someone completely and to be unable to understand or explain something

synonym: perplex, astound, hinder

(1) **baffle** his plan, (2) **baffle** outside noises

The paradox **baffled** most philosophers.

hue

n. the quality of a color as determined by its dominant wavelength

synonym: dye, tint, coloring

(1) the **hues** of a rainbow, (2) **hue** change

To achieve a warmer **hue**, add orange paint.

intensify

v. to increase or make something increase in extent or strength

synonym: amplify, boost, strengthen

(1) **intensify** diplomatic efforts, (2) **intensify** a good relationship

Rebels have pledged to **intensify** the armed struggle against the dictatorship.

human-made

adj. created or produced by humans; artificial

synonym: artificial, unnatural, manufactured

(1) **human-made** climate change, (2) the worst

human-made disaster

The bridge is a **human-made** structure and was built to span the river.

emanate

v. to emit, send out something; to express a quality or feeling

synonym: radiate, exude, give off

(1) **emanate** light, (2) **emanate** happiness

The fragrance of flowers **emanated** from the garden.

evergreen

adj. (of plants) retaining its leaves or foliage throughout the year; (figuratively) enduring, perennial, or constant

synonym: ever-blooming, perennial, unfading

(1) **evergreen** classic, (2) **evergreen** shrub

The **evergreen** trees in the forest stay green all year round.

cropland

n. land used for growing crops, typically for agricultural purposes

synonym: cultivated land, farmland, arable land

(1) **cropland** management, (2) irrigated **cropland**

The government has set aside a large area of **cropland** for agricultural research.

ablaze

adj. on fire; burning brightly

synonym: burning, alight, on fire

(1) sky **ablaze** with stars, (2) **ablaze** with passion

The building was **ablaze** with fire.

photosynthesis

n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.

(1) oxygenic **photosynthesis**, (2) process of **photosynthesis**

In **photosynthesis**, plants use carbon dioxide to feed themselves.

chloroplast

n. a type of membrane-bound organelle that conducts photosynthesis in plant and algal cells.

(1) **chloroplast** DNA, (2) **chloroplast** protein

Chloroplast membranes are incredibly vulnerable to damage by oxygen radicals produced as a byproduct of photochemistry.

chlorophyll

n. any of a group of green pigments found in photosynthetic organisms

(1) **chlorophyll** pigment, (2) bacterial **chlorophyll**

Chlorophyll utilizes sunlight to create sugars.

byproduct

n. a secondary or incidental product produced in the manufacture or synthesis of something else

synonym: side effect, spinoff, outgrowth

(1) toxic **byproducts**, (2) **byproduct** of technology

The **byproduct** of the energy production process is a large amount of carbon dioxide emissions.

algae

n. A simple plant that grows in or near water and lacks typical leaves and roots

(1) **algae** biofuel, (2) blue **algae**

Algae has jammed the inlet to the water turbine.

dissipate

v. to disperse or scatter widely

synonym: scatter, disperse, evaporate

(1) **dissipate** heat, (2) **dissipate** stress

The fog **dissipated**, and the air cleared up.

radiate

v. to spread out or emit something, such as light or heat, in all directions

synonym: give off, scatter, beam

(1) **radiate** an aura, (2) **radiate** in all directions

Roads **radiate** from the famous building in the center of the city.

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.

fluoresce

v. to emit visible light when exposed to certain sources of radiation, such as ultraviolet light; to glow or shine brightly

synonym: glow, radiate, luminesce

(1) **fluoresce** yellow, (2) **fluoresce** in the dark

The minerals in the rock **fluoresce** brightly under UV light.

foliage

n. the leaves of a plant or tree, especially in large quantities or as seen from a distance; natural greenery, often used for decorative purposes

synonym: leaves, greenery, flora

(1) colorful **foliage**, (2) autumn **foliage**

The vibrant **foliage** on the vines made the winery look even more beautiful.

unreliable

adj. not able to be trusted or depended on

synonym: inconsistent, erratic, undependable

(1) prove **unreliable**, (2) **unreliable** source of information

By incorrect assumption, statistics can be notoriously **unreliable**.

infer

v. to form an opinion or conclude that something is true based on existing facts

synonym: guess, deduce, assume

(1) **infer** quality from price, (2) **infer** the possibility

Animal desire and preference are always **inferred** from their behavior.

phytoplankton

n. tiny little plants that float on the surface of the water and on which sea creatures feed

(1) marine **phytoplankton**, (2) **phytoplankton** blooms
She studies the relationship between marine creatures'
toxicity and the **phytoplankton** they feed on.

Session 2: Spelling

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|---------------------------------|---|
| 1. colorful fo____e | <i>n.</i> the leaves of a plant or tree, especially in large quantities or as seen from a distance; natural greenery, often used for decorative purposes |
| 2. al__e biofuel | <i>n.</i> A simple plant that grows in or near water and lacks typical leaves and roots |
| 3. hum____de climate change | <i>adj.</i> created or produced by humans; artificial |
| 4. in__r the possibility | <i>v.</i> to form an opinion or conclude that something is true based on existing facts |
| 5. fl____ce yellow | <i>v.</i> to emit visible light when exposed to certain sources of radiation, such as ultraviolet light; to glow or shine brightly |
| 6. the worst hum____de disaster | <i>adj.</i> created or produced by humans; artificial |
| 7. ev____en shrub | <i>adj.</i> (of plants) retaining its leaves or foliage throughout the year; (figuratively) enduring, perennial, or constant |
| 8. di____te stress | <i>v.</i> to disperse or scatter widely |
| 9. oxygenic pho____sis | <i>n.</i> the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities. |
| 10. ra____e an aura | <i>v.</i> to spread out or emit something, such as light or heat, in all directions |

ANSWERS: 1. foliage, 2. algae, 3. human-made, 4. infer, 5. fluoresce, 6. human-made, 7. evergreen, 8. dissipate, 9. photosynthesis, 10. radiate

- | | |
|-----------------------------------|--|
| 11. ra____e in all directions | <i>v.</i> to spread out or emit something, such as light or heat, in all directions |
| 12. e__t a gamma ray | <i>v.</i> to give off or send out something such as light, heat, sound, gas, etc. |
| 13. irrigated cr____nd | <i>n.</i> land used for growing crops, typically for agricultural purposes |
| 14. fl_____ce in the dark | <i>v.</i> to emit visible light when exposed to certain sources of radiation, such as ultraviolet light; to glow or shine brightly |
| 15. em____e light | <i>v.</i> to emit, send out something; to express a quality or feeling |
| 16. toxic by_____cts | <i>n.</i> a secondary or incidental product produced in the manufacture or synthesis of something else |
| 17. in_____fy a good relationship | <i>v.</i> to increase or make something increase in extent or strength |
| 18. ev_____en classic | <i>adj.</i> (of plants) retaining its leaves or foliage throughout the year; (figuratively) enduring, perennial, or constant |
| 19. bacterial chl_____ll | <i>n.</i> any of a group of green pigments found in photosynthetic organisms |
| 20. marine phy_____ton | <i>n.</i> tiny little plants that float on the surface of the water and on which sea creatures feed |
| 21. sky ab____e with stars | <i>adj.</i> on fire; burning brightly |
| 22. phy_____ton blooms | <i>n.</i> tiny little plants that float on the surface of the water and on which sea creatures feed |

ANSWERS: 11. radiate, 12. emit, 13. cropland, 14. fluoresce, 15. emanate, 16. byproduct, 17. intensify, 18. evergreen, 19. chlorophyll, 20. phytoplankton, 21. ablaze, 22. phytoplankton

23. blue al__e	<i>n.</i> A simple plant that grows in or near water and lacks typical leaves and roots
24. chl_____st protein	<i>n.</i> a type of membrane-bound organelle that conducts photosynthesis in plant and algal cells.
25. h_e change	<i>n.</i> the quality of a color as determined by its dominant wavelength
26. ba___e outside noises	<i>v.</i> to bewilder or perplex someone completely and to be unable to understand or explain something
27. chl_____st DNA	<i>n.</i> a type of membrane-bound organelle that conducts photosynthesis in plant and algal cells.
28. unr_____le source of information	<i>adj.</i> not able to be trusted or depended on
29. chl_____ll pigment	<i>n.</i> any of a group of green pigments found in photosynthetic organisms
30. em_____e happiness	<i>v.</i> to emit, send out something; to express a quality or feeling
31. e__t air pollution	<i>v.</i> to give off or send out something such as light, heat, sound, gas, etc.
32. autumn fo_____e	<i>n.</i> the leaves of a plant or tree, especially in large quantities or as seen from a distance; natural greenery, often used for decorative purposes
33. in_____fy diplomatic efforts	<i>v.</i> to increase or make something increase in extent or strength
34. by_____ct of technology	<i>n.</i> a secondary or incidental product produced in the manufacture or synthesis of something else

ANSWERS: 23. algae, 24. chloroplast, 25. hue, 26. baffle, 27. chloroplast, 28. unreliable, 29. chlorophyll, 30. emanate, 31. emit, 32. foliage, 33. intensify, 34. byproduct

- | | |
|------------------------------|---|
| 35. prove unr_____le | <i>adj.</i> not able to be trusted or depended on |
| 36. cr_____nd management | <i>n.</i> land used for growing crops, typically for agricultural purposes |
| 37. ab____e with passion | <i>adj.</i> on fire; burning brightly |
| 38. in__r quality from price | <i>v.</i> to form an opinion or conclude that something is true based on existing facts |
| 39. the h_es of a rainbow | <i>n.</i> the quality of a color as determined by its dominant wavelength |
| 40. process of pho_____sis | <i>n.</i> the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities. |
| 41. ba____e his plan | <i>v.</i> to bewilder or perplex someone completely and to be unable to understand or explain something |
| 42. di_____te heat | <i>v.</i> to disperse or scatter widely |

ANSWERS: 35. unreliable, 36. cropland, 37. ablaze, 38. infer, 39. hue, 40. photosynthesis, 41. baffle, 42. dissipate

Session 3: Fill in the Blanks

1. The bridge is a _____ structure and was built to span the river.
adj. created or produced by humans; artificial
2. The fragrance of flowers _____ from the garden.
v. to emit, send out something; to express a quality or feeling
3. She studies the relationship between marine creatures' toxicity and the _____ they feed on.
n. tiny little plants that float on the surface of the water and on which sea creatures feed
4. In _____ plants use carbon dioxide to feed themselves.
n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
5. _____ membranes are incredibly vulnerable to damage by oxygen radicals produced as a byproduct of photochemistry.
n. a type of membrane-bound organelle that conducts photosynthesis in plant and algal cells.
6. The _____ of the energy production process is a large amount of carbon dioxide emissions.
n. a secondary or incidental product produced in the manufacture or synthesis of something else
7. The vibrant _____ on the vines made the winery look even more beautiful.
n. the leaves of a plant or tree, especially in large quantities or as seen from a distance; natural greenery, often used for decorative purposes

ANSWERS: 1. human-made, 2. emanated, 3. phytoplankton, 4. photosynthesis, 5. Chloroplast, 6. byproduct, 7. foliage

8. During the unloading, the container box _____ a clicking sound.
v. to give off or send out something such as light, heat, sound, gas, etc.
9. To achieve a warmer _____ add orange paint.
n. the quality of a color as determined by its dominant wavelength
10. The building was _____ with fire.
adj. on fire; burning brightly
11. Animal desire and preference are always _____ from their behavior.
v. to form an opinion or conclude that something is true based on existing facts
12. The _____ trees in the forest stay green all year round.
adj. (of plants) retaining its leaves or foliage throughout the year; (figuratively) enduring, perennial, or constant
13. The government has set aside a large area of _____ for agricultural research.
n. land used for growing crops, typically for agricultural purposes
14. The minerals in the rock _____ brightly under UV light.
v. to emit visible light when exposed to certain sources of radiation, such as ultraviolet light; to glow or shine brightly
15. Roads _____ from the famous building in the center of the city.
v. to spread out or emit something, such as light or heat, in all directions
16. _____ has jammed the inlet to the water turbine.
n. A simple plant that grows in or near water and lacks typical leaves and roots

ANSWERS: 8. emits, 9. hue, 10. ablaze, 11. inferred, 12. evergreen, 13. cropland, 14. fluoresce, 15. radiate, 16. Algae

17. Rebels have pledged to _____ the armed struggle against the dictatorship.
v. to increase or make something increase in extent or strength
18. The paradox _____ most philosophers.
v. to bewilder or perplex someone completely and to be unable to understand or explain something
19. By incorrect assumption, statistics can be notoriously _____.
adj. not able to be trusted or depended on
20. _____ utilizes sunlight to create sugars.
n. any of a group of green pigments found in photosynthetic organisms
21. The fog _____ and the air cleared up.
v. to disperse or scatter widely

ANSWERS: 17. intensify, 18. baffled, 19. unreliable, 20. Chlorophyll, 21. dissipated,