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Vocabulary Builder Reference from...

Colm Kelleher: *Is light a particle or a wave?* | TED Talk

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

Advanced Words Only

IMPORTANT

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Session 1: Word List

scientifically

adv. in a way that relates to science or is connected with science

(1) investigate **scientifically**, (2) **scientifically** explainable
The hypothesis is not yet **scientifically** proven.

platonic

adj. (of relationship or emotion) friendly or affectionate but not sexual

synonym: nonphysical, nonsexual, spiritual

(1) **platonic** relationship, (2) **platonic** love

His relationship with her was completely **platonic**.

faraway

adj. located at a geographically distant place; remote or separated by distance; distant or not easily accessible

synonym: distant, remote, far-off

(1) **faraway** land, (2) **faraway** dream

The view from the **faraway** hilltop was breathtakingly beautiful.

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.

ripple

n. a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind

synonym: wave, undulation, fluctuation

(1) a **ripple** of laughter, (2) **ripple** in the water

Many businesses felt the **ripple** effect of the economy's decline.

Newtonian

adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation

synonym: classical, physics, mechanics

(1) **Newtonian** physics, (2) **Newtonian** mechanics

The motion of planets can be described using **Newtonian** mechanics.

corpuscle

n. a generic term used to describe various types of small biological cells or particles, such as red or white blood cells, or cells found in specific organs or tissues

synonym: cell, particle

(1) red **corpuscle** concentration, (2) white blood **corpuscle**

The **corpuscle** count in his blood sample was found to be outside the normal range.

refraction

n. the bending or change in the direction of a ray of light, sound, or heat as it passes through a medium or travels from one medium to another

synonym: bending, deviation, deflection

(1) **refraction** of light, (2) angle of **refraction**

The atmospheric **refraction** of the sun causes it to appear to be above the horizon when it is actually below it.

passee

adj. no longer fashionable or current; outdated; considered to be old-fashioned or out of date

synonym: outdated, old-fashioned, antique

(1) **passee** entertainment, (2) **passee** trend

Bell-bottom jeans, once considered **passee** fashion, have

made a surprising comeback in recent years.

chalk

n. a soft, white, porous sedimentary rock composed of calcium carbonate, often used for drawing or writing on surfaces such as blackboards

synonym: white rock, limestone, gypsum

(1) a piece of **chalk**, (2) **chalk** on a blackboard

The kids used colored **chalk** to create a mural on the pavement.

undulate

v. to move with a smooth wavelike motion; to have a wavy form or outline

synonym: roll, ripple, wave

(1) **undulate** waves, (2) **undulate** in the wind

The snake **undulated** its way through the underbrush, silently stalking its prey.

disturb

v. to interrupt someone who is trying to work, sleep, etc.

synonym: agitate, bother, intrude

(1) **disturb** the peace, (2) **disturb** his sleep

Tourists frequently **disturb** the island's delicate natural balance.

Session 2: Spelling

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|----------------------------|--|
| 1. angle of ref_____on | <i>n.</i> the bending or change in the direction of a ray of light, sound, or heat as it passes through a medium or travels from one medium to another |
| 2. a ri___e of laughter | <i>n.</i> a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind |
| 3. e__t a gamma ray | <i>v.</i> to give off or send out something such as light, heat, sound, gas, etc. |
| 4. sci_____lly explainable | <i>adv.</i> in a way that relates to science or is connected with science |
| 5. Ne_____an mechanics | <i>adj.</i> relating to Sir Isaac Newton or his laws of motion and universal gravitation |
| 6. pl_____ic love | <i>adj.</i> (of relationship or emotion) friendly or affectionate but not sexual |
| 7. di_____b the peace | <i>v.</i> to interrupt someone who is trying to work, sleep, etc. |
| 8. di_____b his sleep | <i>v.</i> to interrupt someone who is trying to work, sleep, etc. |
| 9. Ne_____an physics | <i>adj.</i> relating to Sir Isaac Newton or his laws of motion and universal gravitation |
| 10. ri___e in the water | <i>n.</i> a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind |
| 11. e__t air pollution | <i>v.</i> to give off or send out something such as light, heat, sound, gas, etc. |

ANSWERS: 1. refraction, 2. ripple, 3. emit, 4. scientifically, 5. Newtonian, 6. platonic, 7. disturb, 8. disturb, 9. Newtonian, 10. ripple, 11. emit

12. a piece of ch__k *n.* a soft, white, porous sedimentary rock composed of calcium carbonate, often used for drawing or writing on surfaces such as blackboards
13. pa__e entertainment *adj.* no longer fashionable or current; outdated; considered to be old-fashioned or out of date
14. pa__e trend *adj.* no longer fashionable or current; outdated; considered to be old-fashioned or out of date
15. pl____ic relationship *adj.* (of relationship or emotion) friendly or affectionate but not sexual
16. un____te in the wind *v.* to move with a smooth wavelike motion; to have a wavy form or outline
17. fa____y land *adj.* located at a geographically distant place; remote or separated by distance; distant or not easily accessible
18. un____te waves *v.* to move with a smooth wavelike motion; to have a wavy form or outline
19. ref____on of light *n.* the bending or change in the direction of a ray of light, sound, or heat as it passes through a medium or travels from one medium to another
20. red co____le concentration *n.* a generic term used to describe various types of small biological cells or particles, such as red or white blood cells, or cells found in specific organs or tissues
21. white blood co____le *n.* a generic term used to describe various types of small biological cells or particles, such as red or white blood cells, or cells found in specific organs or tissues

ANSWERS: 12. chalk, 13. passe, 14. passe, 15. platonic, 16. undulate, 17. faraway, 18. undulate, 19. refraction, 20. corpuscle, 21. corpuscle

22. ch__k on a blackboard *n.* a soft, white, porous sedimentary rock composed of calcium carbonate, often used for drawing or writing on surfaces such as blackboards
23. fa____y dream *adj.* located at a geographically distant place; remote or separated by distance; distant or not easily accessible
24. investigate sci_____lly *adv.* in a way that relates to science or is connected with science

ANSWERS: 22. chalk, 23. faraway, 24. scientifically

Session 3: Fill in the Blanks

1. Tourists frequently _____ the island's delicate natural balance.
v. to interrupt someone who is trying to work, sleep, etc.
2. Bell-bottom jeans, once considered _____ fashion, have made a surprising comeback in recent years.
adj. no longer fashionable or current; outdated; considered to be old-fashioned or out of date
3. The atmospheric _____ of the sun causes it to appear to be above the horizon when it is actually below it.
n. the bending or change in the direction of a ray of light, sound, or heat as it passes through a medium or travels from one medium to another
4. The view from the _____ hilltop was breathtakingly beautiful.
adj. located at a geographically distant place; remote or separated by distance; distant or not easily accessible
5. The snake _____ its way through the underbrush, silently stalking its prey.
v. to move with a smooth wavelike motion; to have a wavy form or outline
6. The hypothesis is not yet _____ proven.
adv. in a way that relates to science or is connected with science
7. Many businesses felt the _____ effect of the economy's decline.
n. a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind

ANSWERS: 1. disturb, 2. passe, 3. refraction, 4. faraway, 5. undulated, 6. scientifically, 7. ripple

8. The _____ count in his blood sample was found to be outside the normal range.
- n.* a generic term used to describe various types of small biological cells or particles, such as red or white blood cells, or cells found in specific organs or tissues
9. During the unloading, the container box _____ a clicking sound.
- v.* to give off or send out something such as light, heat, sound, gas, etc.
10. His relationship with her was completely _____.
- adj.* (of relationship or emotion) friendly or affectionate but not sexual
11. The kids used colored _____ to create a mural on the pavement.
- n.* a soft, white, porous sedimentary rock composed of calcium carbonate, often used for drawing or writing on surfaces such as blackboards
12. The motion of planets can be described using _____ mechanics.
- adj.* relating to Sir Isaac Newton or his laws of motion and universal gravitation

ANSWERS: 8. corpuscle, 9. emits, 10. platonic, 11. chalk, 12. Newtonian