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Vocabulary Builder Reference from...

Boaz Almog: The levitating superconductor | TED

Talk

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

Advanced Words Only

IMPORTANT

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Session 1: Word List

levitate

v. to rise or float in the air without apparent support, often in a magical or supernatural manner

synonym: hover, float, soar

(1) **levitate** objects, (2) **levitate** for a few seconds

The magician appeared to **levitate** off the stage, stunning the audience.

superconductor

n. a material that conducts electricity with zero resistance when cooled to very low temperatures or when subjected to high pressure or strong magnetic fields; a substance with the unique ability to transmit electric current with no energy loss

synonym: zero-resistance material

(1) **superconductor** material, (2) high-temperature **superconductor**

The development of high-temperature **superconductors** revolutionized the field of electrical engineering.

expulsion

n. the act of forcing someone to leave a place or organization, especially permanently

synonym: ejection, banishment, exile

(1) **expulsion** of gas, (2) forceful **expulsion**

The ambassador's **expulsion** was a sign of the deteriorating

relations between the two countries.

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.

collide

v. to hit something violently when moving

synonym: clash, slam, contradict

(1) **collide** head-on, (2) **collide** in midair

The interests of the two countries **collide**.

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.

dissipation

n. the act of dispersing or dissolving, often used to
describe the dissipation of energy or the act of wasting
or squandering resources

synonym: wastefulness, dispersal, decadence

(1) energy **dissipation**, (2) heat **dissipation**

His reckless spending and partying led to his family's fortune
dissipation.

expel

v. to officially force someone to leave a school,
organization, or country

synonym: deport, oust, dislodge

(1) **expel** him from his native country, (2) **expel** air from the
lungs

He took a big drag of his cigarette and slowly **expelled** the
smoke.

circulate

v. to move continuously or freely around a place or closed system

synonym: flow, disperse, rotate

(1) **circulate** a rumor, (2) **circulate** an agenda before the meeting

The fan **circulates** the air in the room quickly.

midair

n. some point in the air; above ground level

(1) a **midair** collision, (2) thrown out into **midair**

She flawlessly performed a **midair** somersault.

repulsion

n. a feeling of intense disgust or dislike; a physical force that resists the approach or contact of two objects

synonym: dislike, disgust, repugnance

(1) **repulsion** force, (2) sense of **repulsion**

The sight of spiders fills me with **repulsion**.

rearrange

v. to change the order or position of things already made; to change the time, date, or place of an event already planned

synonym: readjust, reorganize, reconstruct

(1) **rearrange** the furniture, (2) **rearrange** his schedule

Please **rearrange** these files as we start a new project tomorrow.

rot

v. to decay, or cause something to decay, naturally and gradually

synonym: perish, decay, corrode

(1) begin to **rot**, (2) **rot** with age

Please refrigerate the meat, or it will **rot**.

micron

n. a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms

synonym: micrometer

(1) **micron** measurements, (2) **micron** imaging

The width of a single human hair is around 100 **microns**.

Session 2: Spelling

- | | |
|---------------------------------|--|
| 1. di_____te stress | <i>v.</i> to disperse or scatter widely |
| 2. co_____e in midair | <i>v.</i> to hit something violently when moving |
| 3. heat dis_____on | <i>n.</i> the act of dispersing or dissolving, often used to describe the dissipation of energy or the act of wasting or squandering resources |
| 4. sense of re_____on | <i>n.</i> a feeling of intense disgust or dislike; a physical force that resists the approach or contact of two objects |
| 5. mi_____n measurements | <i>n.</i> a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms |
| 6. le_____te objects | <i>v.</i> to rise or float in the air without apparent support, often in a magical or supernatural manner |
| 7. r_t with age | <i>v.</i> to decay, or cause something to decay, naturally and gradually |
| 8. re_____ge his schedule | <i>v.</i> to change the order or position of things already made; to change the time, date, or place of an event already planned |
| 9. energy dis_____on | <i>n.</i> the act of dispersing or dissolving, often used to describe the dissipation of energy or the act of wasting or squandering resources |
| 10. le_____te for a few seconds | <i>v.</i> to rise or float in the air without apparent support, often in a magical or supernatural manner |

ANSWERS: 1. dissipate, 2. collide, 3. dissipation, 4. repulsion, 5. micron, 6. levitate, 7. rot, 8. rearrange, 9. dissipation, 10. levitate

11. ex_____on of gas *n.* the act of forcing someone to leave a place or organization, especially permanently
12. 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
13. 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
14. co_____e head-on *v.* to hit something violently when moving
15. begin to r_t *v.* to decay, or cause something to decay, naturally and gradually
16. forceful ex_____on *n.* the act of forcing someone to leave a place or organization, especially permanently
17. sup_____tor material *n.* a material that conducts electricity with zero resistance when cooled to very low temperatures or when subjected to high pressure or strong magnetic fields; a substance with the unique ability to transmit electric current with no energy loss
18. re_____ge the furniture *v.* to change the order or position of things already made; to change the time, date, or place of an event already planned
19. ex__l him from his native country *v.* to officially force someone to leave a school, organization, or country

ANSWERS: 11. expulsion, 12. electrify, 13. electrify, 14. collide, 15. rot, 16. expulsion, 17. superconductor, 18. rearrange, 19. expel

20. thrown out into mi___r *n.* some point in the air; above ground level
21. re_____on force *n.* a feeling of intense disgust or dislike; a physical force that resists the approach or contact of two objects
22. ci_____te an agenda before the meeting *v.* to move continuously or freely around a place or closed system
23. ci_____te a rumor *v.* to move continuously or freely around a place or closed system
24. di_____te heat *v.* to disperse or scatter widely
25. a mi___r collision *n.* some point in the air; above ground level
26. high-temperature sup_____tor *n.* a material that conducts electricity with zero resistance when cooled to very low temperatures or when subjected to high pressure or strong magnetic fields; a substance with the unique ability to transmit electric current with no energy loss
27. mi___n imaging *n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
28. ex__l air from the lungs *v.* to officially force someone to leave a school, organization, or country

ANSWERS: 20. midair, 21. repulsion, 22. circulate, 23. circulate, 24. dissipate, 25. midair, 26. superconductor, 27. micron, 28. expel

Session 3: Fill in the Blanks

1. 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
2. His reckless spending and partying led to his family's fortune _____.
 - n. the act of dispersing or dissolving, often used to describe the dissipation of energy or the act of wasting or squandering resources
3. The fan _____ the air in the room quickly.
 - v. to move continuously or freely around a place or closed system
4. He took a big drag of his cigarette and slowly _____ the smoke.
 - v. to officially force someone to leave a school, organization, or country
5. The interests of the two countries _____.
 - v. to hit something violently when moving
6. The development of high-temperature _____ revolutionized the field of electrical engineering.
 - n. a material that conducts electricity with zero resistance when cooled to very low temperatures or when subjected to high pressure or strong magnetic fields; a substance with the unique ability to transmit electric current with no energy loss
7. She flawlessly performed a _____ somersault.
 - n. some point in the air; above ground level

ANSWERS: 1. electrify, 2. dissipation, 3. circulates, 4. expelled, 5. collide, 6. superconductors, 7. midair

8. The ambassador's _____ was a sign of the deteriorating relations between the two countries.
- n.* the act of forcing someone to leave a place or organization, especially permanently
9. Please refrigerate the meat, or it will ____.
- v.* to decay, or cause something to decay, naturally and gradually
10. The fog _____ and the air cleared up.
- v.* to disperse or scatter widely
11. The magician appeared to _____ off the stage, stunning the audience.
- v.* to rise or float in the air without apparent support, often in a magical or supernatural manner
12. The sight of spiders fills me with _____.
- n.* a feeling of intense disgust or dislike; a physical force that resists the approach or contact of two objects
13. The width of a single human hair is around 100 _____.
- n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
14. Please _____ these files as we start a new project tomorrow.
- v.* to change the order or position of things already made; to change the time, date, or place of an event already planned

ANSWERS: 8. expulsion, 9. rot, 10. dissipated, 11. levitate, 12. repulsion, 13. microns, 14. rearrange