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Vocabulary Builder Reference from...

Olivia Breese: The molecular love story that could help power the world | TED Talk

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

Advanced Words Only

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Session 1: Word List

abate

v. to lessen, reduce, or diminish in intensity or severity; to decline or wane in amount or strength over time

synonym: decrease, diminish, reduce

(1) **abate** a storm, (2) **abate** a crisis

He tried to **abate** his anger by taking deep breaths and counting to ten.

reimagine

v. to imagine or conceive of something in a new or different way

synonym: re-conceptualize, re-envision, re-create

(1) **reimagine** the future, (2) **reimagine** the possibilities

The company is trying to **reimagine** its business model to stay competitive.

mismatch

v. to put together or match items that are not compatible or do not fit well together; to be different from or not correspond to something else

synonym: mismatch, discord, clash

(1) **mismatch** expectations, (2) **mismatch** socks

The colors of the shirt and pants totally **mismatch**, making the outfit look ridiculous.

empathy

n. the ability to share another person's feelings or experiences by imagining that person's situation

synonym: compassion, sympathy, tenderness

(1) full of **empathy**, (2) **empathy** for patients

Empathy is also necessary to understand history.

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.

supple

adj. flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas

synonym: flexible, pliable, bendable

(1) **supple** muscles, (2) **supple** leather

The ballerina's **supple** movements left the audience mesmerized.

refrigeration

n. the process of cooling or freezing something, especially food, to preserve it

synonym: cooling, freezing, preservation

(1) **refrigeration** car, (2) **refrigeration** technology

The supermarket had a large **refrigeration** section with all kinds of fresh produce.

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.

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.

heroine

n. a woman admired or idealized for her courage, outstanding achievements, or noble qualities; a woman who is the protagonist of a literary work or film

synonym: protagonist

(1) medieval **heroine**, (2) tragic **heroine**

The brave **heroine** rescued the prince from the dragon's lair.

ascribe

v. to attribute something to a particular cause or source

synonym: attribute, credit, assign

(1) **ascribe** everything to nature, (2) **ascribe** my failure to bad luck

The project's success was **ascribed** to the team's hard work.

equate

v. to consider or describe one thing as similar, equal, or analogous

synonym: associate, liken, relate

(1) **equate** mistakes with failure, (2) **equate** to legal responsibility

It isn't very reasonable to **equate** money with happiness.

electrolysis

n. a process or technique of chemical decomposition produced by passing an electric current through an ion-containing liquid or solution

(1) **electrolysis** apparatus, (2) copper **electrolysis** process

The **electrolysis** of water produces oxygen and hydrogen.

synthesize

v. to combine a substance to make a more complex product or compound

synonym: incorporate, amalgamate

(1) **synthesize** molecules, (2) **synthesize** information

The spider can **synthesize** multiple different silk proteins.

methanol

n. a poisonous chemical substance that is the simplest alcohol formed when methane reacts with oxygen

synonym: wood alcohol, methyl alcohol

(1) **methanol** content, (2) **methanol** fuel cell

Accidental ingestion of **methanol** moonshine has resulted in death.

decarbonize

v. to stop or reduce emitting carbon gases, especially carbon dioxide, by replacing energy made from fossil fuels with renewable energy

synonym: decoke, decarburise, decarburize

(1) **decarbonize** their manufacturing process,

(2) **decarbonize** its energy system

We have to seek methods to **decarbonize** its fossil fuel economy.

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.

kerosene

n. a flammable, colorless, or pale yellow liquid derived from the distillation of petroleum, used as a fuel for lamps, stoves, and heaters

synonym: fuel oil, lamp oil, coal oil

(1) **kerosene** stove, (2) burning **kerosene**

The lamp in the cabin burned **kerosene** for light.

ammonia

n. a compound of nitrogen and hydrogen that forms a gas with a strong smell, used as cleaning substances, fertilizers, and explosives

(1) **ammonia** water, (2) inhale **ammonia** fumes

The advent of **ammonia** fertilizers markedly increased

agricultural productivity.

writ *n.* a written legal order or command
synonym : legal document, order, legal process
(1) a **writ** of summons, (2) issue a **writ**
He was served with a **writ** of eviction, giving him the notice to vacate the property.

immature *adj.* not fully developed or grown; not fully mature
synonym : young, inexperienced, undeveloped
(1) an **immature** youth, (2) developmentally **immature**
His **immature** behavior often gets him into trouble.

policymaker *n.* a person in charge of or involved in developing action plans for a political party, business, etc.
synonym : lawmaker, legislator
(1) education **policymaker**, (2) regional **policymaker**
Policymakers struggle to develop various laws and regulations to address international trade conflicts.

pillar *n.* a tall, vertical column or support structure that helps to hold up other parts of a building or structure; a person or thing regarded as providing essential support or core strength to something
synonym : column, post, support
(1) **pillar** of society, (2) **pillar** decoration
The **pillar** of smoke rising from the building signaled a massive fire.

oceanic *adj.* relating to or characteristic of the ocean or its inhabitants; having to do with the vast expanse of saltwater that covers most of the Earth's surface
synonym : marine, pelagic, sea
(1) **oceanic** climate, (2) **oceanic** exploration
The **oceanic** waves crashed against the shore, creating a mesmerizing sight.

- gulf** *n.* a large ocean inlet or deep bay that is partially enclosed by land
synonym: chasm, divide, abyss
(1) **gulf** war, (2) **gulf** stream
The **Gulf** of Mexico is a body of water in the southern United States.
- fossilized** *adj.* transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible
synonym: petrified, ossified, preserved
(1) obsolete **fossilized** ways, (2) a **fossilized** grove
The dinosaur bones were so old that they had been wholly **fossilized**, turning to stone over millions of years.
- societal** *adj.* relating to society or social relationships
synonym: social, communal, cultural
(1) **societal** norms, (2) **societal** expectations
The **societal** pressure to conform is strong in this community.
- uphold** *v.* to support or defend something, such as a law, idea, decision, etc.
synonym: defend, maintain, sustain
(1) **uphold** the law, (2) **uphold** tradition
The judge may **uphold** the decision of the lower court.
- newlywed** *n.* a person who has recently married and is still in the early stages of their marriage
synonym: honeymooner
(1) congratulate the **newlyweds**, (2) **newlywed** bliss
The **newlywed** couple went on a romantic honeymoon in a tropical paradise.

Session 2: Spelling

- | | |
|------------------------------------|---|
| 1. copper ele_____sis process | <i>n.</i> a process or technique of chemical decomposition produced by passing an electric current through an ion-containing liquid or solution |
| 2. as_____e my failure to bad luck | <i>v.</i> to attribute something to a particular cause or source |
| 3. inhale am_____a fumes | <i>n.</i> a compound of nitrogen and hydrogen that forms a gas with a strong smell, used as cleaning substances, fertilizers, and explosives |
| 4. el_____fy the audience | <i>v.</i> to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something |
| 5. medieval he_____e | <i>n.</i> a woman admired or idealized for her courage, outstanding achievements, or noble qualities; a woman who is the protagonist of a literary work or film |
| 6. su_____e muscles | <i>adj.</i> flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas |
| 7. dec_____ze its energy system | <i>v.</i> to stop or reduce emitting carbon gases, especially carbon dioxide, by replacing energy made from fossil fuels with renewable energy |
| 8. ele_____sis apparatus | <i>n.</i> a process or technique of chemical decomposition produced by passing an electric current through an ion-containing liquid or solution |

ANSWERS: 1. electrolysis, 2. ascribe, 3. ammonia, 4. electrify, 5. heroine, 6. supple, 7. decarbonize, 8. electrolysis

9. g__f war *n.* a large ocean inlet or deep bay that is partially enclosed by land
10. toxic by_____cts *n.* a secondary or incidental product produced in the manufacture or synthesis of something else
11. ne_____ed bliss *n.* a person who has recently married and is still in the early stages of their marriage
12. by_____ct of technology *n.* a secondary or incidental product produced in the manufacture or synthesis of something else
13. re_____ne the possibilities *v.* to imagine or conceive of something in a new or different way
14. me_____ol content *n.* a poisonous chemical substance that is the simplest alcohol formed when methane reacts with oxygen
15. mi_____ch expectations *v.* to put together or match items that are not compatible or do not fit well together; to be different from or not correspond to something else
16. education pol_____er *n.* a person in charge of or involved in developing action plans for a political party, business, etc.
17. 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
18. up____d tradition *v.* to support or defend something, such as a law, idea, decision, etc.

ANSWERS: 9. gulf, 10. byproduct, 11. newlywed, 12. byproduct, 13. reimagine, 14. methanol, 15. mismatch, 16. policymaker, 17. electrify, 18. uphold

19. me____ol fuel cell *n.* a poisonous chemical substance that is the simplest alcohol formed when methane reacts with oxygen
20. tragic he____e *n.* a woman admired or idealized for her courage, outstanding achievements, or noble qualities; a woman who is the protagonist of a literary work or film
21. ab__e a crisis *v.* to lessen, reduce, or diminish in intensity or severity; to decline or wane in amount or strength over time
22. mi____ch socks *v.* to put together or match items that are not compatible or do not fit well together; to be different from or not correspond to something else
23. oc____c climate *adj.* relating to or characteristic of the ocean or its inhabitants; having to do with the vast expanse of saltwater that covers most of the Earth's surface
24. eq____e mistakes with failure *v.* to consider or describe one thing as similar, equal, or analogous
25. syn____ze information *v.* to combine a substance to make a more complex product or compound
26. obsolete fos____ed ways *adj.* transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible
27. re____ne the future *v.* to imagine or conceive of something in a new or different way
28. issue a w__t *n.* a written legal order or command

ANSWERS: 19. methanol, 20. heroine, 21. abate, 22. mismatch, 23. oceanic, 24. equate, 25. synthesize, 26. fossilized, 27. reimagine, 28. writ

29. burning ke____ne *n.* a flammable, colorless, or pale yellow liquid derived from the distillation of petroleum, used as a fuel for lamps, stoves, and heaters
30. full of em____y *n.* the ability to share another person's feelings or experiences by imagining that person's situation
31. dec____ze their manufacturing process *v.* to stop or reduce emitting carbon gases, especially carbon dioxide, by replacing energy made from fossil fuels with renewable energy
32. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
33. a w__t of summons *n.* a written legal order or command
34. so____al expectations *adj.* relating to society or social relationships
35. regional pol____er *n.* a person in charge of or involved in developing action plans for a political party, business, etc.
36. pi____r of society *n.* a tall, vertical column or support structure that helps to hold up other parts of a building or structure; a person or thing regarded as providing essential support or core strength to something
37. ref____ion car *n.* the process of cooling or freezing something, especially food, to preserve it
38. su____e leather *adj.* flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas

ANSWERS: 29. kerosene, 30. empathy, 31. decarbonize, 32. emit, 33. writ, 34. societal, 35. policymaker, 36. pillar, 37. refrigeration, 38. supple

39. g__f stream *n.* a large ocean inlet or deep bay that is partially enclosed by land
40. eq___e to legal responsibility *v.* to consider or describe one thing as similar, equal, or analogous
41. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
42. as_____e everything to nature *v.* to attribute something to a particular cause or source
43. congratulate the ne_____eds *n.* a person who has recently married and is still in the early stages of their marriage
44. ind_____us student *adj.* hardworking, diligent, and persistent in effort
45. ref_____ion technology *n.* the process of cooling or freezing something, especially food, to preserve it
46. am_____a water *n.* a compound of nitrogen and hydrogen that forms a gas with a strong smell, used as cleaning substances, fertilizers, and explosives
47. so_____al norms *adj.* relating to society or social relationships
48. oc_____c exploration *adj.* relating to or characteristic of the ocean or its inhabitants; having to do with the vast expanse of saltwater that covers most of the Earth's surface
49. pi___r decoration *n.* a tall, vertical column or support structure that helps to hold up other parts of a building or structure; a person or thing regarded as providing essential support or core strength to something

ANSWERS: 39. gulf, 40. equate, 41. emit, 42. ascribe, 43. newlywed, 44. industrious, 45. refrigeration, 46. ammonia, 47. societal, 48. oceanic, 49. pillar

50. ke____ne stove *n.* a flammable, colorless, or pale yellow liquid derived from the distillation of petroleum, used as a fuel for lamps, stoves, and heaters
51. ab__e a storm *v.* to lessen, reduce, or diminish in intensity or severity; to decline or wane in amount or strength over time
52. em____y for patients *n.* the ability to share another person's feelings or experiences by imagining that person's situation
53. an im____re youth *adj.* not fully developed or grown; not fully mature
54. up____d the law *v.* to support or defend something, such as a law, idea, decision, etc.
55. syn____ze molecules *v.* to combine a substance to make a more complex product or compound
56. developmentally im____re *adj.* not fully developed or grown; not fully mature
57. a fos____ed grove *adj.* transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible
58. ind____us worker *adj.* hardworking, diligent, and persistent in effort

ANSWERS: 50. kerosene, 51. abate, 52. empathy, 53. immature, 54. uphold, 55. synthesize, 56. immature, 57. fossilized, 58. industrious

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. He was served with a _____ of eviction, giving him the notice to vacate the property.
n. a written legal order or command
3. The dinosaur bones were so old that they had been wholly _____ turning to stone over millions of years.
adj. transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible
4. The ballerina's _____ movements left the audience mesmerized.
adj. flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
5. The supermarket had a large _____ section with all kinds of fresh produce.
n. the process of cooling or freezing something, especially food, to preserve it
6. The spider can _____ multiple different silk proteins.
v. to combine a substance to make a more complex product or compound
7. The project's success was _____ to the team's hard work.
v. to attribute something to a particular cause or source

ANSWERS: 1. electrify, 2. writ, 3. fossilized, 4. supple, 5. refrigeration, 6. synthesize, 7. ascribed

8. He was known to be very _____ and would often work late into the night.
adj. hardworking, diligent, and persistent in effort
9. The _____ of water produces oxygen and hydrogen.
n. a process or technique of chemical decomposition produced by passing an electric current through an ion-containing liquid or solution
10. We have to seek methods to _____ its fossil fuel economy.
v. to stop or reduce emitting carbon gases, especially carbon dioxide, by replacing energy made from fossil fuels with renewable energy
11. The _____ couple went on a romantic honeymoon in a tropical paradise.
n. a person who has recently married and is still in the early stages of their marriage
12. The _____ waves crashed against the shore, creating a mesmerizing sight.
adj. relating to or characteristic of the ocean or its inhabitants; having to do with the vast expanse of saltwater that covers most of the Earth's surface
13. The judge may _____ the decision of the lower court.
v. to support or defend something, such as a law, idea, decision, etc.
14. _____ struggle to develop various laws and regulations to address international trade conflicts.
n. a person in charge of or involved in developing action plans for a political party, business, etc.
15. The _____ of Mexico is a body of water in the southern United States.
n. a large ocean inlet or deep bay that is partially enclosed by land

ANSWERS: 8. industrious, 9. electrolysis, 10. decarbonize, 11. newlywed, 12. oceanic, 13. uphold, 14. Policymakers, 15. Gulf

16. The colors of the shirt and pants totally _____ making the outfit look ridiculous.
- v. to put together or match items that are not compatible or do not fit well together; to be different from or not correspond to something else
17. He tried to _____ his anger by taking deep breaths and counting to ten.
- v. to lessen, reduce, or diminish in intensity or severity; to decline or wane in amount or strength over time
18. _____ is also necessary to understand history.
- n. the ability to share another person's feelings or experiences by imagining that person's situation
19. The _____ of smoke rising from the building signaled a massive fire.
- n. a tall, vertical column or support structure that helps to hold up other parts of a building or structure; a person or thing regarded as providing essential support or core strength to something
20. The company is trying to _____ its business model to stay competitive.
- v. to imagine or conceive of something in a new or different way
21. The lamp in the cabin burned _____ for light.
- n. a flammable, colorless, or pale yellow liquid derived from the distillation of petroleum, used as a fuel for lamps, stoves, and heaters
22. During the unloading, the container box _____ a clicking sound.
- v. to give off or send out something such as light, heat, sound, gas, etc.
23. The _____ pressure to conform is strong in this community.
- adj. relating to society or social relationships

ANSWERS: 16. mismatch, 17. abate, 18. Empathy, 19. pillar, 20. reimagine, 21. kerosene, 22. emits, 23. societal

24. It isn't very reasonable to _____ money with happiness.

v. to consider or describe one thing as similar, equal, or analogous

25. His _____ behavior often gets him into trouble.

adj. not fully developed or grown; not fully mature

26. 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

27. The brave _____ rescued the prince from the dragon's lair.

n. a woman admired or idealized for her courage, outstanding achievements, or noble qualities; a woman who is the protagonist of a literary work or film

28. The advent of _____ fertilizers markedly increased agricultural productivity.

n. a compound of nitrogen and hydrogen that forms a gas with a strong smell, used as cleaning substances, fertilizers, and explosives

29. Accidental ingestion of _____ moonshine has resulted in death.

n. a poisonous chemical substance that is the simplest alcohol formed when methane reacts with oxygen

ANSWERS: 24. equate, 25. immature, 26. byproduct, 27. heroine, 28. ammonia, 29. methanol