

Englist.me



Vocabulary Builder Reference from...

Janet Iwasa: How animations can help scientists test a hypothesis | TED Talk

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

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

mediate

v. to try to bring about an agreement or understanding between people who are in conflict

synonym: arbitrate, reconcile, intervene

(1) **mediate** allergic reaction, (2) **mediate** a negotiation

The teacher had to **mediate** a disagreement between two students over a stolen pencil.

endocytosis

n. a cellular process in which a cell membrane invaginates or folds inward to engulf and internalize substances such as nutrients, proteins, or pathogens; the process by which molecules or particles are taken into a cell through vesicle formation

synonym: cellular uptake, cell swallowing, phagocytosis

(1) **endocytosis** pathway, (2) fluid-phase **endocytosis**

Cholesterol enters cells primarily through receptor-mediated **endocytosis**.

vesicle

n. a small sac or pouch that contains something, such as fluid or air; a tiny membrane-bound compartment within a cell that stores or transports molecules or substances

synonym: bladder, sac, cyst

(1) **vesicle** membrane, (2) **vesicle** transport

A lipid **vesicle** is formed when a lipid bilayer forms a hollow

sphere around a substance.

intern

- v. to put someone in prison, especially for political or military reasons; (noun) a student or trainee who works, sometimes for free, to get work experience or to fulfill qualification criteria

synonym: apprentice, trainee, student

(1) **intern** civilians, (2) medical **intern**

The navy **interned** ships of defeated nations.

deform

- v. to change or distort the shape or appearance of something; to become misshapen or distorted

synonym: distort, contort, mangle

(1) **deform** the shape, (2) **deform** his way of life

The heat from the fire **deformed** the plastic parts of the appliance.

recycle

- v. to sort and collect things to process them and produce valuable materials that can be used again

synonym: reclaim, reuse, reprocess

(1) **recycle** the cardboard boxes, (2) **recycle** milk packaging into new paper

We largely **recycle** the circuit board of cell phones because they contain a lot of valuable metals.

oversimplify

- v. to describe or explain something in a way that is too simple and no longer holds true

(1) **oversimplify** the problem, (2) **oversimplify** a complex reality

People may **oversimplify** natural phenomena due to the improved accessibility of knowledge.

visualize

- v. to form a mental image or concept of something; to make something visible

synonym: imagine, picture, envision

(1) **visualize** data, (2) **visualize** flying through space

She tried to **visualize** the layout of the new house in her mind.

payoff

n. the outcome or result of an action or series of actions; the return or reward gained from an investment, effort, or risk

synonym : reward, compensation, return

(1) financial **payoff**, (2) emotional **payoff**

The **payoff** for all my hard work was finally getting a promotion.

unparalleled

adj. without parallel, equal in size, amount, quality, etc.; better or worse than any other

synonym : outstanding, phenomenal, remarkable

(1) **unparalleled** views, (2) an **unparalleled** achievement

Several American technology companies have achieved **unparalleled** success in terms of customer numbers.

animate

v. to make something full of interest and energy

synonym : invigorate, energize, enliven

(1) **animate** the body, (2) **animate** his soul

The positive attitude of the supervisor **animated** the discussion.

infect

v. to affect a person, an animal, or a plant with a disease-causing organism

synonym : pollute, contaminate, affect

(1) **infect** other animal species, (2) **infect** a computer with a virus

Children often **infect** parents with this head cold.

degenerate

v. (of a person, animal, or plant) to become worse in health or physical condition

synonym : deteriorate, decline, decay

(1) **degenerate** into a disagreement, (2) **degenerate** into recession

The once-thriving city has **degenerated** into a crime-ridden slum.

excite

v. to make someone feel suddenly enthusiastic or eager

synonym: thrill, exhilarate, animate

(1) **excite** the crowd, (2) **excite** rebellion

The news of her promotion **excited** her.

toolkit

n. a set of tools, materials, or resources that are designed to be used together for a specific purpose or task; a collection of information or techniques that can be used to address a problem or achieve a goal

synonym: tool set, equipment, utility kit

(1) handy **toolkit**, (2) digital **toolkit**

The DIY **toolkit** includes a variety of power and hand tools for home repair.

Session 2: Spelling

- | | |
|---|---|
| 1. ve_____e membrane | <i>n.</i> a small sac or pouch that contains something, such as fluid or air; a tiny membrane-bound compartment within a cell that stores or transports molecules or substances |
| 2. end_____is pathway | <i>n.</i> a cellular process in which a cell membrane invaginates or folds inward to engulf and internalize substances such as nutrients, proteins, or pathogens; the process by which molecules or particles are taken into a cell through vesicle formation |
| 3. re_____e milk packaging into new paper | <i>v.</i> to sort and collect things to process them and produce valuable materials that can be used again |
| 4. ex___e the crowd | <i>v.</i> to make someone feel suddenly enthusiastic or eager |
| 5. vi_____ze data | <i>v.</i> to form a mental image or concept of something; to make something visible |
| 6. de___m his way of life | <i>v.</i> to change or distort the shape or appearance of something; to become misshapen or distorted |
| 7. in___t a computer with a virus | <i>v.</i> to affect a person, an animal, or a plant with a disease-causing organism |
| 8. ove_____ify the problem | <i>v.</i> to describe or explain something in a way that is too simple and no longer holds true |

ANSWERS: 1. vesicle, 2. endocytosis, 3. recycle, 4. excite, 5. visualize, 6. deform, 7. infect, 8. oversimplify

9. financial pa___f *n.* the outcome or result of an action or series of actions; the return or reward gained from an investment, effort, or risk
10. vi_____ze flying through space *v.* to form a mental image or concept of something; to make something visible
11. an unp_____led achievement *adj.* without parallel, equal in size, amount, quality, etc.; better or worse than any other
12. ex___e rebellion *v.* to make someone feel suddenly enthusiastic or eager
13. ve_____e transport *n.* a small sac or pouch that contains something, such as fluid or air; a tiny membrane-bound compartment within a cell that stores or transports molecules or substances
14. re_____e the cardboard boxes *v.* to sort and collect things to process them and produce valuable materials that can be used again
15. deg_____te into recession *v.* (of a person, animal, or plant) to become worse in health or physical condition
16. medical in___n *v.* to put someone in prison, especially for political or military reasons; (noun) a student or trainee who works, sometimes for free, to get work experience or to fulfill qualification criteria
17. digital to_____t *n.* a set of tools, materials, or resources that are designed to be used together for a specific purpose or task; a collection of information or techniques that can be used to address a problem or achieve a goal

ANSWERS: 9. payoff, 10. visualize, 11. unparalleled, 12. excite, 13. vesicle, 14. recycle, 15. degenerate, 16. intern, 17. toolkit

18. unparallel_____ed views *adj.* without parallel, equal in size, amount, quality, etc.; better or worse than any other
19. emotional payoff_____ *n.* the outcome or result of an action or series of actions; the return or reward gained from an investment, effort, or risk
20. animate_____ the body *v.* to make something full of interest and energy
21. infect_____ other animal species *v.* to affect a person, an animal, or a plant with a disease-causing organism
22. handy toolkit_____ *n.* a set of tools, materials, or resources that are designed to be used together for a specific purpose or task; a collection of information or techniques that can be used to address a problem or achieve a goal
23. deform_____ the shape *v.* to change or distort the shape or appearance of something; to become misshapen or distorted
24. intern_____ civilians *v.* to put someone in prison, especially for political or military reasons; (noun) a student or trainee who works, sometimes for free, to get work experience or to fulfill qualification criteria
25. mediate_____ a negotiation *v.* to try to bring about an agreement or understanding between people who are in conflict
26. degenerate_____ into a disagreement *v.* (of a person, animal, or plant) to become worse in health or physical condition

ANSWERS: 18. unparallelled, 19. payoff, 20. animate, 21. infect, 22. toolkit, 23. deform, 24. intern, 25. mediate, 26. degenerate

27. ove_____ify a complex reality *v.* to describe or explain something in a way that is too simple and no longer holds true
28. fluid-phase end_____is *n.* a cellular process in which a cell membrane invaginates or folds inward to engulf and internalize substances such as nutrients, proteins, or pathogens; the process by which molecules or particles are taken into a cell through vesicle formation
29. an_____e his soul *v.* to make something full of interest and energy
30. me_____e allergic reaction *v.* to try to bring about an agreement or understanding between people who are in conflict

ANSWERS: 27. oversimplify, 28. endocytosis, 29. animate, 30. mediate

Session 3: Fill in the Blanks

1. The _____ for all my hard work was finally getting a promotion.
n. the outcome or result of an action or series of actions; the return or reward gained from an investment, effort, or risk

2. Several American technology companies have achieved _____ success in terms of customer numbers.
adj. without parallel, equal in size, amount, quality, etc.; better or worse than any other

3. The news of her promotion _____ her.
v. to make someone feel suddenly enthusiastic or eager

4. The heat from the fire _____ the plastic parts of the appliance.
v. to change or distort the shape or appearance of something; to become misshapen or distorted

5. We largely _____ the circuit board of cell phones because they contain a lot of valuable metals.
v. to sort and collect things to process them and produce valuable materials that can be used again

6. The navy _____ ships of defeated nations.
v. to put someone in prison, especially for political or military reasons; (noun) a student or trainee who works, sometimes for free, to get work experience or to fulfill qualification criteria

7. The once-thriving city has _____ into a crime-ridden slum.
v. (of a person, animal, or plant) to become worse in health or physical condition

ANSWERS: 1. payoff, 2. unparalleled, 3. excited, 4. deformed, 5. recycle, 6. interned, 7. degenerated

8. The DIY _____ includes a variety of power and hand tools for home repair.
- n.* a set of tools, materials, or resources that are designed to be used together for a specific purpose or task; a collection of information or techniques that can be used to address a problem or achieve a goal
9. The teacher had to _____ a disagreement between two students over a stolen pencil.
- v.* to try to bring about an agreement or understanding between people who are in conflict
10. Cholesterol enters cells primarily through receptor-mediated _____.
- n.* a cellular process in which a cell membrane invaginates or folds inward to engulf and internalize substances such as nutrients, proteins, or pathogens; the process by which molecules or particles are taken into a cell through vesicle formation
11. People may _____ natural phenomena due to the improved accessibility of knowledge.
- v.* to describe or explain something in a way that is too simple and no longer holds true
12. The positive attitude of the supervisor _____ the discussion.
- v.* to make something full of interest and energy
13. Children often _____ parents with this head cold.
- v.* to affect a person, an animal, or a plant with a disease-causing organism
14. A lipid _____ is formed when a lipid bilayer forms a hollow sphere around a substance.
- n.* a small sac or pouch that contains something, such as fluid or air; a tiny membrane-bound compartment within a cell that stores or transports molecules or substances

ANSWERS: 8. toolkit, 9. mediate, 10. endocytosis, 11. oversimplify, 12. animated, 13. infect, 14. vesicle

15. She tried to _____ the layout of the new house in her mind.

v. to form a mental image or concept of something; to make something visible

ANSWERS: 15. visualize