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Vocabulary Builder Reference from...

Joy Wolfram: How nanoparticles could change the way we treat cancer | TED Talk

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

Advanced Words Only

IMPORTANT

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Session 1: Word List

medicinal

adj. of or relating to the treatment or cure of disease

synonym: curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**

The **medicinal** properties of this herb have been known to help with various ailments.

firefighter

n. a person whose job is to extinguish fires

(1) forest **firefighter**, (2) decided to be a **firefighter**

The **firefighter** broke into the house bravely to rescue the children.

nanoparticle

n. a particle of matter that is between 1 and 100 nanometres (nm) in diameter

(1) aluminum **nanoparticle**, (2) atmospheric **nanoparticle**

For some creatures, carbon **nanoparticles** are deadly.

nanoscale

adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

(1) **nanoscale** device, (2) things at the **nanoscale**

This process improves the strength of the metal by controlling the **nanoscale** lattice structure of the metal.

toolbox

n. a container or storage unit for tools, typically characterized by a handle and one or more compartments for organizing and storing various tools and equipment

synonym : tool chest, tool kit, tool bag

(1) design **toolbox**, (2) **toolbox** storage

You should always keep a basic **toolbox** in your car in case of an emergency.

sieve

n. a utensil with a mesh bottom or fine holes, used for separating larger objects from smaller ones or for straining liquids; (verb) to check and sort carefully

synonym : strainer, colander, tamis

(1) **sieve** tissue, (2) molecular **sieve**

The baker sifted the flour through a **sieve** to remove any lumps.

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.

degrade

v. to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others

synonym : demean, disgrace, impair

(1) **degrade** his public image, (2) **degrade** environmental quality

You should not **degrade** yourself by allowing them to use you.

disarm

v. to remove weapons or the means of attack from a person, group, or situation; to win over or reduce suspicion or hostility from an opponent or adversary

synonym :

demilitarize, neutralize

(1) **disarm** opponents, (2) **disarm** a bomb

The police were able to **disarm** the suspect without any violence.

preclinical

adj. of or relating to the early phases of a disease when an accurate diagnosis is not possible because symptoms of the disease have not yet appeared; of or relating to the first stage of a medical education

(1) **preclinical** diagnosis, (2) **preclinical** safety evaluation

The doctor suspected that the patient was in the **preclinical** stage of Alzheimer's disease.

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.

saliva

n. the clear liquid that is secreted into the mouth by glands in the walls of the mouth and throat, helping to lubricate food during chewing and digestion

synonym: spit, drool, slobber

(1) dog's **saliva**, (2) dry mouth with little **saliva**

The dentist asked him to spit out the excess **saliva** into the sink.

pancreas

n. a glandular organ in the digestive system that produces several important hormones, including insulin and glucagon, as well as digestive enzymes that help break down food in the small intestine

synonym: gland, organ, islet

(1) **pancreas** inflammation, (2) **pancreas** function

The endocrine function of the **pancreas** involves the secretion of hormones such as insulin.

teamwork

n. the combined action of a group of people working together towards a common goal

synonym: collaboration, cooperation, coordination

(1) poor **teamwork**, (2) **teamwork** in business

Harmonious **teamwork** is essential to the success of this project.

dedicate

v. to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use

synonym: consecrate, devote, commit

(1) **dedicate** a few hours, (2) **dedicate** a chapter to the subject

He **dedicated** his life to helping others.

Session 2: Spelling

1. pre_____al diagnosis *adj.* of or relating to the early phases of a disease when an accurate diagnosis is not possible because symptoms of the disease have not yet appeared; of or relating to the first stage of a medical education
2. decided to be a fir_____er *n.* a person whose job is to extinguish fires
3. de_____e his public image *v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
4. things at the na_____le *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
5. ci_____te a rumor *v.* to move continuously or freely around a place or closed system
6. si__e tissue *n.* a utensil with a mesh bottom or fine holes, used for separating larger objects from smaller ones or for straining liquids; (verb) to check and sort carefully
7. ci_____te an agenda before the meeting *v.* to move continuously or freely around a place or closed system
8. di___m a bomb *v.* to remove weapons or the means of attack from a person, group, or situation; to win over or reduce suspicion or hostility from an opponent or adversary

ANSWERS: 1. preclinical, 2. firefighter, 3. degrade, 4. nanoscale, 5. circulate, 6. sieve, 7. circulate, 8. disarm

9. traditional me_____al *adj.* of or relating to the treatment or cure of disease
10. de_____te a chapter to the subject *v.* to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use
11. di_____m opponents *v.* to remove weapons or the means of attack from a person, group, or situation; to win over or reduce suspicion or hostility from an opponent or adversary
12. 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
13. pre_____al safety evaluation *adj.* of or relating to the early phases of a disease when an accurate diagnosis is not possible because symptoms of the disease have not yet appeared; of or relating to the first stage of a medical education
14. atmospheric nan_____cle *n.* a particle of matter that is between 1 and 100 nanometres (nm) in diameter
15. design to_____x *n.* a container or storage unit for tools, typically characterized by a handle and one or more compartments for organizing and storing various tools and equipment

ANSWERS: 9. medicinal, 10. dedicate, 11. disarm, 12. intern, 13. preclinical, 14. nanoparticle, 15. toolbox

16. poor te____rk *n.* the combined action of a group of people working together towards a common goal
17. pa____as inflammation *n.* a glandular organ in the digestive system that produces several important hormones, including insulin and glucagon, as well as digestive enzymes that help break down food in the small intestine
18. na_____le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
19. forest fir_____er *n.* a person whose job is to extinguish fires
20. aluminum nan_____cle *n.* a particle of matter that is between 1 and 100 nanometres (nm) in diameter
21. molecular si__e *n.* a utensil with a mesh bottom or fine holes, used for separating larger objects from smaller ones or for straining liquids; (verb) to check and sort carefully
22. de____e environmental quality *v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
23. to____x storage *n.* a container or storage unit for tools, typically characterized by a handle and one or more compartments for organizing and storing various tools and equipment

ANSWERS: 16. teamwork, 17. pancreas, 18. nanoscale, 19. firefighter, 20. nanoparticle, 21. sieve, 22. degrade, 23. toolbox

24. in___n 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. pa_____as function
- n. a glandular organ in the digestive system that produces several important hormones, including insulin and glucagon, as well as digestive enzymes that help break down food in the small intestine
26. te_____rk in business
- n. the combined action of a group of people working together towards a common goal
27. de_____te a few hours
- v. to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use
28. dog's sa___a
- n. the clear liquid that is secreted into the mouth by glands in the walls of the mouth and throat, helping to lubricate food during chewing and digestion
29. me_____al chemistry
- adj. of or relating to the treatment or cure of disease
30. dry mouth with little sa___a
- n. the clear liquid that is secreted into the mouth by glands in the walls of the mouth and throat, helping to lubricate food during chewing and digestion

ANSWERS: 24. intern, 25. pancreas, 26. teamwork, 27. dedicate, 28. saliva, 29. medicinal, 30. saliva

Session 3: Fill in the Blanks

1. The police were able to _____ the suspect without any violence.
 - v. to remove weapons or the means of attack from a person, group, or situation; to win over or reduce suspicion or hostility from an opponent or adversary

2. He _____ his life to helping others.
 - v. to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use

3. Harmonious _____ is essential to the success of this project.
 - n. the combined action of a group of people working together towards a common goal

4. You should not _____ yourself by allowing them to use you.
 - v. to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others

5. 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

6. You should always keep a basic _____ in your car in case of an emergency.
 - n. a container or storage unit for tools, typically characterized by a handle and one or more compartments for organizing and storing various tools and equipment

7. The _____ broke into the house bravely to rescue the children.
 - n. a person whose job is to extinguish fires

ANSWERS: 1. disarm, 2. dedicated, 3. teamwork, 4. degrade, 5. interned, 6. toolbox, 7. firefighter

8. The _____ properties of this herb have been known to help with various ailments.
adj. of or relating to the treatment or cure of disease
9. The doctor suspected that the patient was in the _____ stage of Alzheimer's disease.
adj. of or relating to the early phases of a disease when an accurate diagnosis is not possible because symptoms of the disease have not yet appeared; of or relating to the first stage of a medical education
10. The dentist asked him to spit out the excess _____ into the sink.
n. the clear liquid that is secreted into the mouth by glands in the walls of the mouth and throat, helping to lubricate food during chewing and digestion
11. The endocrine function of the _____ involves the secretion of hormones such as insulin.
n. a glandular organ in the digestive system that produces several important hormones, including insulin and glucagon, as well as digestive enzymes that help break down food in the small intestine
12. This process improves the strength of the metal by controlling the _____ lattice structure of the metal.
adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
13. The baker sifted the flour through a _____ to remove any lumps.
n. a utensil with a mesh bottom or fine holes, used for separating larger objects from smaller ones or for straining liquids; (verb) to check and sort carefully
14. For some creatures, carbon _____ are deadly.
n. a particle of matter that is between 1 and 100 nanometres (nm) in diameter

ANSWERS: 8. medicinal, 9. preclinical, 10. saliva, 11. pancreas, 12. nanoscale, 13. sieve, 14. nanoparticles

15. The fan _____ the air in the room quickly.

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

ANSWERS: 15. circulates