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Vocabulary Builder Reference from...

Giada Gerboni: The incredible potential of flexible, soft robots | TED Talk

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

Advanced Words Only

IMPORTANT

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Session 1: Word List

well-defined

adj. having clear and precise boundaries or characteristics; distinctly outlined or delimited; easily understood or recognizable

synonym : clear, distinct, precise

(1) **well-defined** terms, (2) **well-defined** objectives

The **well-defined** set of instructions made it easy to assemble the furniture.

actuate

v. to cause a machine or equipment to start to work

synonym : motivate, spark, drive

(1) **actuate** the circuits, (2) **actuate** a parking brake

A desire for success **actuated** her.

robotic

adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

synonym : automated, mechanical, laborsaving

(1) **robotic** arm, (2) **robotic** guide operation

The surgeon removed the tumor using **robotic** video assistance.

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.

hydrostatics

n. a branch of physics that deals with the mechanical properties and behavior of fluids at rest, particularly with the principles of pressure, buoyancy, and equilibrium in fluids

synonym: fluid mechanics, hydrodynamics

(1) **hydrostatics** principles, (2) **hydrostatics** equation

The principles of **hydrostatics** are essential in the design of submarines.

tentacle

n. a flexible, mobile, and long arm-like organ used for feeling and holding things, catching food, or moving

(1) a squid's **tentacle**, (2) posterior **tentacle**

The police caught the fugitive criminal in the **tentacles** of an expanded investigation.

octopus

n. a sea creature with a soft round body and eight long tentacles (= long parts like arms)

synonym: devilfish

(1) giant **octopus**, (2) venomous **octopus**

He experienced nausea after eating live **octopus**.

embody

v. to represent or exemplify something; to give tangible form to an abstract idea

synonym: represent, exemplify, personify

(1) **embody** my goal, (2) **embody** a spirit of charity

The company's new products **embody** the values of innovation and sustainability.

sparing

adj. characterized by using or giving very little of something; frugal or economical in the use of resources or materials

synonym: frugal, economical, thrifty

(1) a **sparing** amount of sugar, (2) time **sparing**

The **sparing** use of resources is important for conservation efforts.

deformation

n. the process of changing the physical shape or form of something, usually due to external forces or pressure

synonym: distortion, warping, contortion

(1) **deformation** at room temperature, (2) **deformation** of structures

Various factors, including pressure, temperature, and the application of external forces, can cause the **deformation** of rocks.

sneak

v. to go somewhere, or take someone or something somewhere secretly or stealthily; to steal or do something secretly or stealthily

synonym: creep, tiptoe, smuggle

(1) **sneak** a cigarette, (2) **sneak** out of danger

The children tried to **sneak** out and eat the candy.

afterward

adv. after the time mentioned

synonym: later, thereafter, following

(1) a few years **afterward**, (2) go there **afterward**

We will explain the countermeasure concerning this problem **afterward**.

biomedical

adj. relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare

synonym: medical, clinical, health-related

(1) **biomedical** assay, (2) cutting-edge **biomedical**

Biomedical engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.

endoscope

n. a medical instrument that consists of a long, flexible tube with a light and a camera on end, used to examine the interior of a body cavity or organ visually

(1) medical **endoscope**, (2) flexible **endoscope**

The doctor used a diagnostic **endoscope** to examine the patient's stomach during the medical procedure.

elongate

v. to extend something in length; to lengthen, stretch out, or to make longer

synonym: stretch, lengthen, extend

(1) **elongate** muscles, (2) **elongate** a dress

The yoga instructor told us to **elongate** our spines during the practice.

steer

v. to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone

synonym: guide, direct, control

(1) **steer** a steady course, (2) **steer** a conversation

The captain told him to **steer** the ship north.

Session 2: Spelling

1. ac____e a parking brake
v. to cause a machine or equipment to start to work
2. st__r a conversation
v. to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
3. def_____on of structures
n. the process of changing the physical shape or form of something, usually due to external forces or pressure
4. de___m the shape
v. to change or distort the shape or appearance of something; to become misshapen or distorted
5. medical en_____pe
n. a medical instrument that consists of a long, flexible tube with a light and a camera on end, used to examine the interior of a body cavity or organ visually
6. wel_____ned objectives
adj. having clear and precise boundaries or characteristics; distinctly outlined or delimited; easily understood or recognizable
7. cutting-edge bio_____al
adj. relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
8. wel_____ned terms
adj. having clear and precise boundaries or characteristics; distinctly outlined or delimited; easily understood or recognizable

ANSWERS: 1. actuate, 2. steer, 3. deformation, 4. deform, 5. endoscope, 6. well-defined, 7. biomedical, 8. well-defined

19. venomous oc____s *n.* a sea creature with a soft round body and eight long tentacles (= long parts like arms)
20. de___m his way of life *v.* to change or distort the shape or appearance of something; to become misshapen or distorted
21. bio_____al assay *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
22. a few years af_____rd *adv.* after the time mentioned
23. el_____te a dress *v.* to extend something in length; to lengthen, stretch out, or to make longer
24. a sp_____g amount of sugar *adj.* characterized by using or giving very little of something; frugal or economical in the use of resources or materials
25. go there af_____rd *adv.* after the time mentioned
26. ro_____c arm *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
27. em___y a spirit of charity *v.* to represent or exemplify something; to give tangible form to an abstract idea
28. hyd_____ics equation *n.* a branch of physics that deals with the mechanical properties and behavior of fluids at rest, particularly with the principles of pressure, buoyancy, and equilibrium in fluids

ANSWERS: 19. octopus, 20. deform, 21. biomedical, 22. afterward, 23. elongate, 24. sparing, 25. afterward, 26. robotic, 27. embody, 28. hydrostatics

29. giant oc____s *n.* a sea creature with a soft round body and eight long tentacles (= long parts like arms)
30. a squid's te____le *n.* a flexible, mobile, and long arm-like organ used for feeling and holding things, catching food, or moving
31. sn__k out of danger *v.* to go somewhere, or take someone or something somewhere secretly or stealthily; to steal or do something secretly or stealthily
32. hyd____ics principles *n.* a branch of physics that deals with the mechanical properties and behavior of fluids at rest, particularly with the principles of pressure, buoyancy, and equilibrium in fluids

ANSWERS: 29. octopus, 30. tentacle, 31. sneak, 32. hydrostatics

Session 3: Fill in the Blanks

1. 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

2. The captain told him to _____ the ship north.
v. to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone

3. A desire for success _____ her.
v. to cause a machine or equipment to start to work

4. Various factors, including pressure, temperature, and the application of external forces, can cause the _____ of rocks.
n. the process of changing the physical shape or form of something, usually due to external forces or pressure

5. The _____ set of instructions made it easy to assemble the furniture.
adj. having clear and precise boundaries or characteristics; distinctly outlined or delimited; easily understood or recognizable

6. The _____ use of resources is important for conservation efforts.
adj. characterized by using or giving very little of something; frugal or economical in the use of resources or materials

7. _____ engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.
adj. relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare

ANSWERS: 1. deformed, 2. steer, 3. actuated, 4. deformation, 5. well-defined, 6. sparing, 7. Biomedical

8. The police caught the fugitive criminal in the _____ of an expanded investigation.
- n.* a flexible, mobile, and long arm-like organ used for feeling and holding things, catching food, or moving
9. The children tried to _____ out and eat the candy.
- v.* to go somewhere, or take someone or something somewhere secretly or stealthily; to steal or do something secretly or stealthily
10. We will explain the countermeasure concerning this problem _____.
- adv.* after the time mentioned
11. The principles of _____ are essential in the design of submarines.
- n.* a branch of physics that deals with the mechanical properties and behavior of fluids at rest, particularly with the principles of pressure, buoyancy, and equilibrium in fluids
12. The doctor used a diagnostic _____ to examine the patient's stomach during the medical procedure.
- n.* a medical instrument that consists of a long, flexible tube with a light and a camera on end, used to examine the interior of a body cavity or organ visually
13. He experienced nausea after eating live _____.
- n.* a sea creature with a soft round body and eight long tentacles (= long parts like arms)
14. The yoga instructor told us to _____ our spines during the practice.
- v.* to extend something in length; to lengthen, stretch out, or to make longer
15. The company's new products _____ the values of innovation and sustainability.
- v.* to represent or exemplify something; to give tangible form to an abstract idea

ANSWERS: 8. tentacles, 9. sneak, 10. afterward, 11. hydrostatics, 12. endoscope, 13. octopus, 14. elongate, 15. embody

16. The surgeon removed the tumor using _____ video assistance.

adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

ANSWERS: 16. robotic