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Vocabulary Builder Reference from...

Nina Tandon: Caring for engineered tissue | TED Talk
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Advanced Words Only

IMPORTANT

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Session 1: Word List

petri

n. (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria

(1) **petri** dish test, (2) bacteria on **petri** dishes

Glass **petri** dishes are used to culture microorganisms.

sterile

adj. free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing

synonym: clean, germ-free, hygienic

(1) **sterile** environment, (2) a **sterile** man

Surgeons must use **sterile** instruments to prevent infection during an operation.

incubator

n. an apparatus in which conditions are controlled for hatching eggs, growing cells, or keeping people or animals warm; a place, especially with support staff and equipment, offered at a low cost to new small businesses

synonym: hatchery, brooder, nursery

(1) infant **incubator**, (2) business **incubator** program

The eggs were placed in an artificial **incubator** to ensure proper hatching conditions.

homesick

adj. feeling sad or nostalgic for one's home, family, or familiar surroundings, especially when away from them

for a significant length of time

synonym : nostalgic, longing, yearning

(1) suffer from **homesick**, (2) **homesick** for home
The military personnel stationed overseas often feel **homesick** for their loved ones.

biomimetics

n. the study of natural systems and structures to create new technologies or improve existing ones

(1) **biomimetics** research, (2) **biomimetics** technology
The aircraft's design was inspired by **biomimetics** principles, which allowed for improved aerodynamics and reduced fuel consumption.

rhythmic

adj. having a pattern of regular beats or a regular beat; characterized by rhythm

synonym : measured, metrical, cadenced

(1) a **rhythmic** stroking, (2) in a **rhythmic** pace
The **rhythmic** sound of the drums was mesmerizing.

tirelessly

adv. without getting tired or fatigued; persistently, energetically, and continuously working with great effort

synonym : inexhaustibly, indefatigably, unceasingly

(1) dedicated **tirelessly**, (2) **tirelessly** help out
She worked **tirelessly** for hours to finish her project on time.

pacemaker

n. a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others

synonym : heartbeat regulator, pacer, pacesetter

(1) implanted **pacemaker**, (2) **pacemaker** battery
Some people with **pacemakers** may need to avoid certain activities or sources of electromagnetic interference.

greedy

adj. having or showing an intense or insatiable desire for wealth, status, power, or food

synonym :

avaricious, covetous, grasping

(1) **greedy** person, (2) **greedy** for money

His **greedy** behavior led him to steal from the company.

biomaterial

n. a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues

(1) **biomaterial** development, (2) **biomaterials** industry

The new **biomaterials** used in implants are more durable and less likely to cause an immune response.

scaffold

n. a temporary platform or structure used to support workers and materials during construction or maintenance work

synonym: platform, staging, framework

(1) **scaffold** construction, (2) go to the **scaffold**

The construction workers set up the **scaffold** to reach the top of the building.

capillary

n. a tube of small internal diameter; any of the minute tubes that carry blood

(1) a **capillary** tube, (2) **capillary** action

There are many **capillary** vessels in the gills of fish.

marshmallow

n. a spongy confection made from sugar, corn syrup, and gelatin, often flavored with vanilla and molded into shapes or used as a topping or decoration for desserts

(1) **marshmallow** fluff, (2) **marshmallow** treat

She roasted **marshmallows** over the campfire.

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.

steward

- n.* a person responsible for the management and care of another's property or for the supervision of the domestic staff of a large household or organization; a person in charge of arranging for the supply of food to a college, club, etc.

synonym: caretaker, manager, custodian

(1) **steward** duties, (2) **steward** service

The **steward** on the flight was very helpful in assisting passengers with their needs.

Session 2: Spelling

1. a st____e man
adj. free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing
2. a ca____ry tube
n. a tube of small internal diameter; any of the minute tubes that carry blood
3. implanted pa____er
n. a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others
4. dedicated tir____ly
adv. without getting tired or fatigued; persistently, energetically, and continuously working with great effort
5. st____d service
n. a person responsible for the management and care of another's property or for the supervision of the domestic staff of a large household or organization; a person in charge of arranging for the supply of food to a college, club, etc.
6. pe__i dish test
n. (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria
7. ca____ry action
n. a tube of small internal diameter; any of the minute tubes that carry blood
8. business in____or program
n. an apparatus in which conditions are controlled for hatching eggs, growing cells, or keeping people or animals warm; a place, especially with support staff and equipment, offered at a low cost to new small businesses

ANSWERS: 1. sterile, 2. capillary, 3. pacemaker, 4. tirelessly, 5. steward, 6. petri, 7. capillary, 8. incubator

9. st____d duties *n.* a person responsible for the management and care of another's property or for the supervision of the domestic staff of a large household or organization; a person in charge of arranging for the supply of food to a college, club, etc.
10. suffer from ho____ck *adj.* feeling sad or nostalgic for one's home, family, or familiar surroundings, especially when away from them for a significant length of time
11. me____e allergic reaction *v.* to try to bring about an agreement or understanding between people who are in conflict
12. st____e environment *adj.* free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing
13. gr____y person *adj.* having or showing an intense or insatiable desire for wealth, status, power, or food
14. gr____y for money *adj.* having or showing an intense or insatiable desire for wealth, status, power, or food
15. tir____ly help out *adv.* without getting tired or fatigued; persistently, energetically, and continuously working with great effort
16. me____e a negotiation *v.* to try to bring about an agreement or understanding between people who are in conflict
17. bio____als industry *n.* a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues

ANSWERS: 9. steward, 10. homesick, 11. mediate, 12. sterile, 13. greedy, 14. greedy, 15. tirelessly, 16. mediate, 17. biomaterial

18. go to the sc_____ld *n.* a temporary platform or structure used to support workers and materials during construction or maintenance work
19. in a rh_____ic pace *adj.* having a pattern of regular beats or a regular beat; characterized by rhythm
20. bio_____cs technology *n.* the study of natural systems and structures to create new technologies or improve existing ones
21. pa_____er battery *n.* a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others
22. mar_____ow fluff *n.* a spongy confection made from sugar, corn syrup, and gelatin, often flavored with vanilla and molded into shapes or used as a topping or decoration for desserts
23. bio_____al development *n.* a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues
24. a rh_____ic stroking *adj.* having a pattern of regular beats or a regular beat; characterized by rhythm
25. mar_____ow treat *n.* a spongy confection made from sugar, corn syrup, and gelatin, often flavored with vanilla and molded into shapes or used as a topping or decoration for desserts
26. bio_____cs research *n.* the study of natural systems and structures to create new technologies or improve existing ones

ANSWERS: 18. scaffold, 19. rhythmic, 20. biomimetics, 21. pacemaker, 22. marshmallow, 23. biomaterial, 24. rhythmic, 25. marshmallow, 26. biomimetics

27. infant in_____or
- n.* an apparatus in which conditions are controlled for hatching eggs, growing cells, or keeping people or animals warm; a place, especially with support staff and equipment, offered at a low cost to new small businesses
28. ho_____ck for home
- adj.* feeling sad or nostalgic for one's home, family, or familiar surroundings, especially when away from them for a significant length of time
29. sc_____ld construction
- n.* a temporary platform or structure used to support workers and materials during construction or maintenance work
30. bacteria on pe__i dishes
- n.* (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria

ANSWERS: 27. incubator, 28. homesick, 29. scaffold, 30. petri

Session 3: Fill in the Blanks

1. The military personnel stationed overseas often feel _____ for their loved ones.
adj. feeling sad or nostalgic for one's home, family, or familiar surroundings, especially when away from them for a significant length of time
2. The _____ on the flight was very helpful in assisting passengers with their needs.
n. a person responsible for the management and care of another's property or for the supervision of the domestic staff of a large household or organization; a person in charge of arranging for the supply of food to a college, club, etc.
3. There are many _____ vessels in the gills of fish.
n. a tube of small internal diameter; any of the minute tubes that carry blood
4. The _____ sound of the drums was mesmerizing.
adj. having a pattern of regular beats or a regular beat; characterized by rhythm
5. The eggs were placed in an artificial _____ to ensure proper hatching conditions.
n. an apparatus in which conditions are controlled for hatching eggs, growing cells, or keeping people or animals warm; a place, especially with support staff and equipment, offered at a low cost to new small businesses
6. The aircraft's design was inspired by _____ principles, which allowed for improved aerodynamics and reduced fuel consumption.
n. the study of natural systems and structures to create new technologies or improve existing ones

ANSWERS: 1. homesick, 2. steward, 3. capillary, 4. rhythmic, 5. incubator, 6. biomimetics

7. Surgeons must use _____ instruments to prevent infection during an operation.
adj. free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing
8. She worked _____ for hours to finish her project on time.
adv. without getting tired or fatigued; persistently, energetically, and continuously working with great effort
9. Some people with _____ may need to avoid certain activities or sources of electromagnetic interference.
n. a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others
10. The new _____ used in implants are more durable and less likely to cause an immune response.
n. a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues
11. His _____ behavior led him to steal from the company.
adj. having or showing an intense or insatiable desire for wealth, status, power, or food
12. She roasted _____ over the campfire.
n. a spongy confection made from sugar, corn syrup, and gelatin, often flavored with vanilla and molded into shapes or used as a topping or decoration for desserts
13. 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

ANSWERS: 7. sterile, 8. tirelessly, 9. pacemakers, 10. biomaterials, 11. greedy, 12. marshmallows, 13. mediate

14. The construction workers set up the _____ to reach the top of the building.
- n.* a temporary platform or structure used to support workers and materials during construction or maintenance work
15. Glass _____ dishes are used to culture microorganisms.
- n.* (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria

ANSWERS: 14. scaffold, 15. petri