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Vocabulary Builder Reference from...

Antonio Cataldo: What would happen if you lost your sense of touch? | TED Talk

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

Advanced Words Only

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Session 1: Word List

gastric

adj. relating to the stomach or the digestive system; characterized by or causing discomfort or pain in the stomach or upper abdomen

synonym : stomachic, digestive, belly

(1) **gastric** issues, (2) **gastric** cancer

After eating spicy food, some people experience **gastric** distress like heartburn and indigestion.

linger

v. to stay in a place or exist longer than expected

synonym : dawdle, tarry, loiter

(1) **linger** in the mind, (2) **linger** over your work

She **lingered** for a moment before leaving the room.

deafferentation

n. the loss or absence of sensory inputs to the brain from an area of the body, typically due to damage or loss of nerve connections

synonym : loss of sensation, sensory deprivation, nerve damage

(1) sensory **deafferentation**, (2) **deafferentation-induced** pain

Treatment for **deafferentation** may involve physical therapy and other forms of rehabilitation.

neurological

adj. of or relating to the science of neurology or the nervous system

synonym : nervous, neural, brain-related

(1) fever with **neurological** signs, (2) **neurological** symptoms

The patient was diagnosed with a **neurological** disorder affecting their motor skills.

impair

v. to damage something or make it weaker or worse

synonym : degrade, mar, deface

(1) **impair** my health, (2) **impair** insulin sensitivity

The accident made his vision **impaired**.

somatosensor

n. a type of sensory receptor in the skin, muscles, tendons, and joints that respond to touch, pressure, temperature, or pain stimuli and sends signals to the brain for processing in the somatosensory cortex

synonym : mechanoreceptor, touch receptor, sensory receptor

(1) **somatosensor** neuron, (2) **somatosensor** cortex

The **somatosensor** in your skin detects touch, pressure, and temperature changes.

proprioception

n. the sense of the relative position of one's body parts and their movement, regulated by receptors in the muscles, tendons, and joints; the ability to sense where one's body is in space without relying on vision

synonym : body awareness, kinesthesia, sense of movement

(1) improve **proprioception**, (2) **proprioception** training

Athletes rely heavily on **proprioception** to perform complex movements with precision.

tendon

n. a strong, fibrous cord of tissue that connects muscle to bone

synonym : tissue, sinew, ligament

(1) **tendon** grafting, (2) **tendon** collagen

Tendon injuries are common among athletes.

centimeter

n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

(1) **centimeter** measurement, (2) thirty **centimeters** tall

The room was only one **centimeter** wider than the piano, making it a tight fit.

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.

nociceptor

n. a sensory nerve ending that is capable of detecting harmful stimuli, such as heat, cold, pressure, or tissue damage, and transmitting this information to the brain

(1) thermal **nociceptor**, (2) **nociceptor** fiber

The **nociceptors** in the skin are activated by heat, cold, and pressure.

myelin

n. a white fatty substance that covers around nerves, helping them to send signals effectively

synonym: medulla

(1) **myelin** encasing the axons, (2) **myelin** protein

Myelin sheath allows electrical impulses to travel quickly and efficiently along the nerve cells.

myelinated

adj. having a layer of myelin (= a fatty substance) around nerve fibers, which serves to insulate and speed up the transmission of nerve impulses

synonym: insulated, covered in myelin, nerve-coated

(1) **myelinated** white matter, (2) **myelinated** axons

Myelinated nerves conduct signals faster than unmyelinated nerves.

ache

v. to experience a dull, persistent pain or discomfort, typically of moderate or low intensity; to feel a continuous dull pain

synonym : hurt, throb, smart

(1) **ache** abominably, (2) **ache** all the time

I **ache** all over after running a marathon yesterday.

tactile

adj. relating to the sense of touch; tangible or perceptible through the sense of touch

synonym : touchable, tangible, palpable

(1) **tactile** stimulation, (2) **tactile** feedback

The **tactile** sensation of the fabric was soft and smooth to the touch.

disrupt

v. to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance

synonym : interrupt, disturb, break into

(1) **disrupt** a well-ordered condition, (2) **disrupt** sleep

I'm so sorry to **disrupt** you when you're pretty busy.

underpin

v. to support or strengthen the foundations of something

synonym : support, foundation, base

(1) **underpin** a structure, (2) **underpin** democratization

The research findings **underpin** the theory that human activities cause global warming.

autoimmune

adj. relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances

(1) insulin **autoimmune** syndrome, (2) **autoimmune** disorder

The presence of certain substances triggered the **autoimmune** response.

swath

n. a strip of land, especially a long, narrow one; a large amount or quantity of something

synonym : strip, band, fodder

(1) a large **swath** of territory, (2) a **swath** of green grass

The charity organization has helped to provide education to a vast **swath** of the population.

sect

n. a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream

synonym : group, faction, cult

(1) **sect** beliefs, (2) secret **sect**

The minority **sect** believed in a set of unconventional religious practices.

deprive

v. to take away something from someone

synonym : deny, take away, divest

(1) **deprive** others of profit, (2) **deprive** him of his status

He was **deprived** of his freedom when sentenced to life in prison.

starvation

n. a severe lack of food that leads to malnutrition and, ultimately, death

synonym : hunger, malnutrition, emaciation

(1) die of **starvation**, (2) **starvation** wages

The drought led to widespread **starvation** in the region.

undeniable

adj. not possible to deny; true or certain

synonym : absolute, definite, indubitable

(1) an **undeniable** fact, (2) an **undeniable** masterpiece

Her influence on teenagers is **undeniable**.

Session 2: Spelling

1. my___n protein *n.* a white fatty substance that covers around nerves, helping them to send signals effectively
2. dea_____ion-induced pain *n.* the loss or absence of sensory inputs to the brain from an area of the body, typically due to damage or loss of nerve connections
3. s__t beliefs *n.* a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream
4. a sw__h of green grass *n.* a strip of land, especially a long, narrow one; a large amount or quantity of something
5. di_____t a well-ordered condition *v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
6. ga_____c issues *adj.* relating to the stomach or the digestive system; characterized by or causing discomfort or pain in the stomach or upper abdomen
7. ta_____e feedback *adj.* relating to the sense of touch; tangible or perceptible through the sense of touch
8. li___r over your work *v.* to stay in a place or exist longer than expected

ANSWERS: 1. myelin, 2. deafferentation, 3. sect, 4. swath, 5. disrupt, 6. gastric, 7. tactile, 8. linger

9. ta____e stimulation *adj.* relating to the sense of touch; tangible or perceptible through the sense of touch
10. sensory dea_____ion *n.* the loss or absence of sensory inputs to the brain from an area of the body, typically due to damage or loss of nerve connections
11. di_____t sleep *v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
12. te____n collagen *n.* a strong, fibrous cord of tissue that connects muscle to bone
13. thirty cen_____ers tall *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
14. im____r insulin sensitivity *v.* to damage something or make it weaker or worse
15. un_____in a structure *v.* to support or strengthen the foundations of something
16. thermal noc_____or *n.* a sensory nerve ending that is capable of detecting harmful stimuli, such as heat, cold, pressure, or tissue damage, and transmitting this information to the brain
17. li____r in the mind *v.* to stay in a place or exist longer than expected
18. my____n encasing the axons *n.* a white fatty substance that covers around nerves, helping them to send signals effectively

ANSWERS: 9. tactile, 10. deafferentation, 11. disrupt, 12. tendon, 13. centimeter, 14. impair, 15. underpin, 16. nociceptor, 17. linger, 18. myelin

19. te___n grafting *n.* a strong, fibrous cord of tissue that connects muscle to bone
20. a__e abominably *v.* to experience a dull, persistent pain or discomfort, typically of moderate or low intensity; to feel a continuous dull pain
21. mye_____ed white matter *adj.* having a layer of myelin (= a fatty substance) around nerve fibers, which serves to insulate and speed up the transmission of nerve impulses
22. insulin aut_____ne syndrome *adj.* relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances
23. im___r my health *v.* to damage something or make it weaker or worse
24. som_____sor neuron *n.* a type of sensory receptor in the skin, muscles, tendons, and joints that respond to touch, pressure, temperature, or pain stimuli and sends signals to the brain for processing in the somatosensory cortex
25. som_____sor cortex *n.* a type of sensory receptor in the skin, muscles, tendons, and joints that respond to touch, pressure, temperature, or pain stimuli and sends signals to the brain for processing in the somatosensory cortex
26. an und_____le fact *adj.* not possible to deny; true or certain
27. de_____e him of his status *v.* to take away something from someone

ANSWERS: 19. tendon, 20. ache, 21. myelinated, 22. autoimmune, 23. impair, 24. somatosensor, 25. somatosensor, 26. undeniable, 27. deprive

28. die of sta_____on *n.* a severe lack of food that leads to malnutrition and, ultimately, death
29. a large sw__h of territory *n.* a strip of land, especially a long, narrow one; a large amount or quantity of something
30. aut_____ne disorder *adj.* relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances
31. a__e all the time *v.* to experience a dull, persistent pain or discomfort, typically of moderate or low intensity; to feel a continuous dull pain
32. noc_____or fiber *n.* a sensory nerve ending that is capable of detecting harmful stimuli, such as heat, cold, pressure, or tissue damage, and transmitting this information to the brain
33. un_____in democratization *v.* to support or strengthen the foundations of something
34. an und_____le masterpiece *adj.* not possible to deny; true or certain
35. improve pro_____ion *n.* the sense of the relative position of one's body parts and their movement, regulated by receptors in the muscles, tendons, and joints; the ability to sense where one's body is in space without relying on vision
36. def_____on at room temperature *n.* the process of changing the physical shape or form of something, usually due to external forces or pressure

ANSWERS: 28. starvation, 29. swath, 30. autoimmune, 31. ache, 32. nociceptor, 33. underpin, 34. undeniable, 35. proprioception, 36. deformation

37. mye_____ed axons *adj.* having a layer of myelin (= a fatty substance) around nerve fibers, which serves to insulate and speed up the transmission of nerve impulses
38. fever with neu_____cal signs *adj.* of or relating to the science of neurology or the nervous system
39. neu_____cal symptoms *adj.* of or relating to the science of neurology or the nervous system
40. sta_____on wages *n.* a severe lack of food that leads to malnutrition and, ultimately, death
41. ga_____c cancer *adj.* relating to the stomach or the digestive system; characterized by or causing discomfort or pain in the stomach or upper abdomen
42. pro_____ion training *n.* the sense of the relative position of one's body parts and their movement, regulated by receptors in the muscles, tendons, and joints; the ability to sense where one's body is in space without relying on vision
43. cen_____er measurement *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
44. def_____on of structures *n.* the process of changing the physical shape or form of something, usually due to external forces or pressure
45. secret s__t *n.* a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream

ANSWERS: 37. myelinated, 38. neurological, 39. neurological, 40. starvation, 41. gastric, 42. proprioception, 43. centimeter, 44. deformation, 45. sect

46. de____e others of profit

v. to take away something from someone

ANSWERS: 46. deprive

Session 3: Fill in the Blanks

1. The room was only one _____ wider than the piano, making it a tight fit.
n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

2. The minority _____ believed in a set of unconventional religious practices.
n. a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream

3. She _____ for a moment before leaving the room.
v. to stay in a place or exist longer than expected

4. He was _____ of his freedom when sentenced to life in prison.
v. to take away something from someone

5. The drought led to widespread _____ in the region.
n. a severe lack of food that leads to malnutrition and, ultimately, death

6. I _____ all over after running a marathon yesterday.
v. to experience a dull, persistent pain or discomfort, typically of moderate or low intensity; to feel a continuous dull pain

7. 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

8. The _____ in your skin detects touch, pressure, and temperature changes.
n. a type of sensory receptor in the skin, muscles, tendons, and joints that respond to touch, pressure, temperature, or pain stimuli and sends signals to the brain for processing in the somatosensory cortex

ANSWERS: 1. centimeter, 2. sect, 3. lingered, 4. deprived, 5. starvation, 6. ache, 7. deformation, 8. somatosensor

9. I'm so sorry to _____ you when you're pretty busy.
- v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
10. Treatment for _____ may involve physical therapy and other forms of rehabilitation.
- n.* the loss or absence of sensory inputs to the brain from an area of the body, typically due to damage or loss of nerve connections
11. The _____ sensation of the fabric was soft and smooth to the touch.
- adj.* relating to the sense of touch; tangible or perceptible through the sense of touch
12. The presence of certain substances triggered the _____ response.
- adj.* relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances
13. _____ nerves conduct signals faster than unmyelinated nerves.
- adj.* having a layer of myelin (= a fatty substance) around nerve fibers, which serves to insulate and speed up the transmission of nerve impulses
14. After eating spicy food, some people experience _____ distress like heartburn and indigestion.
- adj.* relating to the stomach or the digestive system; characterized by or causing discomfort or pain in the stomach or upper abdomen
15. The _____ in the skin are activated by heat, cold, and pressure.
- n.* a sensory nerve ending that is capable of detecting harmful stimuli, such as heat, cold, pressure, or tissue damage, and transmitting this information to the brain

ANSWERS: 9. disrupt, 10. deafferentation, 11. tactile, 12. autoimmune, 13. Myelinated, 14. gastric, 15. nociceptors

16. _____ sheath allows electrical impulses to travel quickly and efficiently along the nerve cells.
- n.* a white fatty substance that covers around nerves, helping them to send signals effectively
17. The research findings _____ the theory that human activities cause global warming.
- v.* to support or strengthen the foundations of something
18. The patient was diagnosed with a _____ disorder affecting their motor skills.
- adj.* of or relating to the science of neurology or the nervous system
19. The charity organization has helped to provide education to a vast _____ of the population.
- n.* a strip of land, especially a long, narrow one; a large amount or quantity of something
20. The accident made his vision _____.
- v.* to damage something or make it weaker or worse
21. _____ injuries are common among athletes.
- n.* a strong, fibrous cord of tissue that connects muscle to bone
22. Athletes rely heavily on _____ to perform complex movements with precision.
- n.* the sense of the relative position of one's body parts and their movement, regulated by receptors in the muscles, tendons, and joints; the ability to sense where one's body is in space without relying on vision

ANSWERS: 16. Myelin, 17. underpin, 18. neurological, 19. swath, 20. impaired, 21. Tendon, 22. proprioception

23. Her influence on teenagers is _____.

adj. not possible to deny; true or certain

ANSWERS: 23. undeniable