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Vocabulary Builder Reference from...

Greg Gage: Electrical experiments with plants that count and communicate | TED Talk https://www.ted.com/talks/greg_gage_electrical_experiments_with_plants_that_count_and_communicate



Advanced Words Only

IMPORTANT

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Session 1: Word List

neuroscience

- the scientific study of the function, structure, and disorder of the brain and the nervous system
- (1) the branch of **neuroscience**, (2) a theoretical concept in **neuroscience**

Our university is famous for its professors, who are well-versed in behavioral **neuroscience**.

cofounder

- one of several people who establishes an organization or starts a business
- (1) cofounder of the university, (2) late cofounderHe is the cofounder and chairman of this tech company.

shrub

 a woody plant that is smaller than a tree and has several main stems emerging from the soil

synonym: bush, hedge, fern

(1) tree and **shrubs**, (2) small **shrub**

These are **shrubs** with no trunks that rarely grow taller than 3 meters.

Arthurian

- adj. relating to king Arthur and the tales and legends associated with him
- (1) the Arthurian cycle, (2) Arthurian romances

The Arthurian legends of King Arthur and the knights of the

Round Table are popular literary motifs.

swamp

n. an area of low-lying land that is flooded or saturated with water, often having a growth of natural vegetationsynonym: marsh, mire, bog

(1) muddy swamp, (2) swamp tour

The lowland **swamp** was full of dangerous animals and poisonous plants.

carnivorous

adj. feeding on the flesh of other animalssynonym: meat-eating, predatory, flesh-eating

(1) **carnivorous** cell, (2) aquatic **carnivorous** mammal The **carnivorous** dinosaur preyed on other animals.

neuron

- a cell that is specialized to carry information within the brain and between the brain and other parts of the body
 synonym: nerve cell
- (1) excite the **neurons**, (2) **neuron** cell body

 Our body transfers information along each **neuron** using an electrical impulse.

electrocardiogram

- a test that uses electrodes placed on the chest, arms, and legs to record the electrical signals of the heart and create a graph that shows the heart's rhythm and activity
 synonym: ECG, heart monitor, cardiac monitor
- (1) **electrocardiogram** technician, (2) abnormal **electrocardiogram**

The hospital invested in state-of-the-art **electrocardiogram** machines to improve patient care.

mimosa

 a cocktail typically made with champagne and orange juice; a plant with delicate, fern-like leaves and fluffy pink or yellow flowers

synonym: cocktail, drink

(1) mimosa tree, (2) mimosa cocktail

The wedding reception was decorated with delicate white

roses and yellow mimosa arrangements.

herbivore

- n. an animal that eats only plants, such as a cow or a deer synonym: plant-eater, browser, graminivore
- (1) herbivore diet, (2) herbivore animals

A giraffe is an **herbivore** that primarily eats leaves and twigs.

Venus

- n. the planet second in order from the sun
- (1) **Venus** orbiter, (2) surface of **Venus**They launched a rocket toward **Venus**.

pretension

 n. the act of claiming or asserting something, especially without good reason or without evidence; an unfounded or excessive claim or ambition

synonym: presumption, pretense, affectation

(1) **pretension** to authority, (2) baseless **pretension**His **pretensions** of being a gourmet were quickly exposed when he could not identify basic herbs and spices.

darn

v. to mend a piece of clothing by sewing over a hole or tear with small, tight stitches

synonym: mend, repair, patch

(1) darn stockings, (2) darn hole

I have to **darn** these socks before they become unwearable.

probabilistic

adj. characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks

synonym: probable, statistical, likely

(1) **probabilistic** model, (2) **probabilistic** approach In a **probabilistic** system, the outcome is uncertain and can vary based on chance.

determinant

 a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

synonym: cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

axon

- a long and slender projection of a nerve cell, or neuron, that sends out signals away from the nerve cell
- (1) an **axon** of a nerve cell, (2) the **axon** terminals We are developing a technology to promote the elongation and regeneration of sensory nerve **axons**.

actualize

- v. to make real or concrete; to bring into existence or implementation; to fulfill or realize a potential or intentionsynonym: realize, accomplish, effectuate
- (1) **actualize** your ideas, (2) **actualize** the company's vision I need to **actualize** my plan to make it a reality.

electrify

to make a machine or system work by using electricity;
 to make someone extremely enthusiastic about or
 interested in something

synonym: wire, amaze, astonish

(1) **electrify** the audience, (2) **electrify** a manufacturing process

The product developed through years of research continues to **electrify** the market.

ubiquitous

- adj. being or existing everywhere at oncesynonym: universal, omnipresent, everywhere
- (1) **ubiquitous** computing, (2) **ubiquitous** across ecosystems

Sugar is **ubiquitous** in food.

interspecies

- adj. occurring between or involving different species;pertaining to interactions between different speciessynonym: interbreeding, crossbreeding, mixed
- (1) interspecies interaction, (2) interspecies

communication

There are many cases of **interspecies** cooperation in the animal kingdom.

Session 2: Spelling

1.	small shb	n.	a woody plant that is smaller than a tree and has several main stems emerging from the soil
2.	protic approach	adj.	characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
3.	the branch of neunce	n.	the scientific study of the function, structure, and disorder of the brain and the nervous system
4.	mia tree	n.	a cocktail typically made with champagne and orange juice; a plant with delicate, fern-like leaves and fluffy pink or yellow flowers
5.	inties communication	adj.	occurring between or involving different species; pertaining to interactions between different species
6.	acze the company's vision	v.	to make real or concrete; to bring into existence or implementation; to fulfill or realize a potential or intention
7.	elfy a manufacturing process	v.	to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
8.	coer of the university	n.	one of several people who establishes an organization or starts a business
9.	inties interaction	adj.	occurring between or involving different species; pertaining to interactions between different species

ANSWERS: 1. shrub, 2. probabilistic, 3. neuroscience, 4. mimosa, 5. interspecies, 6. actualize, 7. electrify, 8. cofounder, 9. interspecies

10.	swp tour	n.	an area of low-lying land that is flooded or saturated with water, often having a growth of natural vegetation
11.	excite the nens	n.	a cell that is specialized to carry information within the brain and between the brain and other parts of the body
12.	eleram technician	n.	a test that uses electrodes placed on the chest, arms, and legs to record the electrical signals of the heart and create a graph that shows the heart's rhythm and activity
13.	ubius computing	adj.	being or existing everywhere at once
14.	tree and shbs	n.	a woody plant that is smaller than a tree and has several main stems emerging from the soil
15.	muddy swp	n.	an area of low-lying land that is flooded or saturated with water, often having a growth of natural vegetation
16.	late coer	n.	one of several people who establishes an organization or starts a business
17.	surface of Ves	n.	the planet second in order from the sun
18.	the an terminals	n.	a long and slender projection of a nerve cell, or neuron, that sends out signals away from the nerve cell
19.	baseless preon	n.	the act of claiming or asserting something, especially without good reason or without evidence; an unfounded or excessive claim or

ANSWERS: 10. swamp, 11. neuron, 12. electrocardiogram, 13. ubiquitous, 14. shrub, 15. swamp, 16. cofounder, 17. Venus, 18. axon, 19. pretension

ambition

ANSWERS: 20. carnivorous, 21. electrify, 22. herbivore, 23. probabilistic, 24. Venus, 25. Arthurian, 26. darn, 27. determinant, 28. axon, 29. Arthurian, 30. neuron

body

between the brain and other parts of the

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ANSWERS: 31. herbivore, 32. pretension, 33. mimosa, 34. actualize, 35. darn, 36. electrocardiogram, 37. carnivorous, 38. neuroscience, 39. determinant

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40. ubi	us across ecosystems	adj. being or existing everywhere at once

ANSWERS: 40. ubiquitous

Session 3: Fill in the Blanks

1.	One of success is having a positive attitude and a strong work ethic.
n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
2.	The hospital invested in state-of-the-art machines to improve patient care.
n.	a test that uses electrodes placed on the chest, arms, and legs to record the electrical signals of the heart and create a graph that shows the heart's rhythm and activity
3.	I need to my plan to make it a reality.
v.	to make real or concrete; to bring into existence or implementation; to fulfill or realize a potential or intention
4.	The lowland was full of dangerous animals and poisonous plants.
n.	an area of low-lying land that is flooded or saturated with water, often having a growth of natural vegetation
5.	I have to these socks before they become unwearable.
v.	to mend a piece of clothing by sewing over a hole or tear with small, tight stitches
6.	We are developing a technology to promote the elongation and regeneration of sensory nerve
n.	a long and slender projection of a nerve cell, or neuron, that sends out signals away from the nerve cell
AN axc	SWERS: 1. determinant, 2. electrocardiogram, 3. actualize, 4. swamp, 5. darn, 6. ons

7.	The legends of King Arthur and the knights of the Round Table are popular literary motifs.
adj	relating to king Arthur and the tales and legends associated with him
8.	The wedding reception was decorated with delicate white roses and yellow arrangements.
n.	a cocktail typically made with champagne and orange juice; a plant with delicate, fern-like leaves and fluffy pink or yellow flowers
9.	Our university is famous for its professors, who are well-versed in behavioral
n.	the scientific study of the function, structure, and disorder of the brain and the nervous system
10.	The product developed through years of research continues to the market.
<i>v</i> .	to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
11.	Our body transfers information along each using an electrical impulse.
n.	a cell that is specialized to carry information within the brain and between the brain and other parts of the body
12.	His of being a gourmet were quickly exposed when he could not identify basic herbs and spices.
n.	the act of claiming or asserting something, especially without good reason or without evidence; an unfounded or excessive claim or ambition
13.	They launched a rocket toward
n.	the planet second in order from the sun
	SWERS: 7. Arthurian, 8. mimosa, 9. neuroscience, 10. electrify, 11. neuron, 12. tensions, 13. Venus

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