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Vocabulary Builder Reference from...

Carl Schoonover: How to look inside the brain | TED Talk

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

Advanced Words Only

IMPORTANT

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Session 1: Word List

neuroscience

n. 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**.

rev

n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

synonym : revolution, RPM, speed

(1) low- **rev** engine, (2) **rev** up the crowd

He stepped on the gas pedal, and the engine released a loud **rev**.

neuron

n. 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.

transistor

n. a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics

synonym : semiconductor, microchip, circuit

(1) **transistor** radio, (2) **transistor** circuit

The invention of the **transistor** revolutionized the field of electronics.

visualize

v. to form a mental image or concept of something; to make something visible

synonym : imagine, picture, envision

(1) **visualize** data, (2) **visualize** flying through space

She tried to **visualize** the layout of the new house in her mind.

luminescent

adj. emitting light or glowing softly, often without heat; having the ability to produce or emit light, especially through chemical reactions or by absorbing and then releasing energy

synonym : glowing, radiant, shining

(1) soft **luminescent** glow, (2) mesmerizing **luminescent** effect

The **luminescent** stars illuminated the night sky.

jellyfish

n. a marine creature with a soft, jelly-like body and tentacles for stinging

synonym : medusa, sea nettle, moon jelly

(1) spineless **jellyfish**, (2) **jellyfish** sting

The beach was filled with hundreds of **jellyfish**, so swimming was not recommended.

glowing

adj. highly enthusiastic; greatly praised

synonym : burning, bright, flaming

(1) **glowing** reviews, (2) **glowing** cheeks

The western sky was **glowing** pink.

henchman

n. a loyal follower or assistant, often used to describe someone willing to do the dirty or illegal work for a leader or criminal

synonym : accomplice, assistant, helper

(1) loyal **henchman**, (2) a boss-and- **henchman** relationship

The criminal's **henchman** carried out his dirty work.

invade

v. to enter aggressively into another's territory by military force for conquest and occupation

synonym : intrude, raid, overrun

(1) **invade** other tissues, (2) **invade** his privacy

I have no intention to **invade** your privacy.

serotonin

n. a neurotransmitter (= a chemical that carries nerve impulses) involved in, e.g., sleep, emotion, and memory

(1) **serotonin** drug, (2) **serotonin** levels

The medicine works by boosting **serotonin** levels in the brain.

feeble

adj. lacking physical or mental strength; weak or frail; lacking force, effectiveness, or impact

synonym : weak, frail, feeble-minded

(1) **feeble** attempt, (2) **feeble** excuse

The older man's **feeble** voice suggested he was not feeling well.

ready-made

adj. (of a product) already made or prepared; (of an idea or solution) preconceived or complete and requiring no further development or work

synonym : pre-made, off-the-shelf, prefab

(1) **ready-made** templates, (2) **ready-made** curtains

I prefer using **ready-made** meals when short on time and don't feel like cooking from scratch.

Session 2: Spelling

1. rea_____de templates *adj.* (of a product) already made or prepared; (of an idea or solution) preconceived or complete and requiring no further development or work
2. se_____in drug *n.* a neurotransmitter (= a chemical that carries nerve impulses) involved in, e.g., sleep, emotion, and memory
3. in___e other tissues *v.* to enter aggressively into another's territory by military force for conquest and occupation
4. ne___n cell body *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
5. low-r_v engine *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
6. spineless je_____sh *n.* a marine creature with a soft, jelly-like body and tentacles for stinging
7. fe___e attempt *adj.* lacking physical or mental strength; weak or frail; lacking force, effectiveness, or impact
8. mesmerizing lum_____nt effect *adj.* emitting light or glowing softly, often without heat; having the ability to produce or emit light, especially through chemical reactions or by absorbing and then releasing energy

ANSWERS: 1. ready-made, 2. serotonin, 3. invade, 4. neuron, 5. rev, 6. jellyfish, 7. feeble, 8. luminescent

9. vi_____ze flying through space *v.* to form a mental image or concept of something; to make something visible
10. tra_____or radio *n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics
11. je_____sh sting *n.* a marine creature with a soft, jelly-like body and tentacles for stinging
12. loyal he_____an *n.* a loyal follower or assistant, often used to describe someone willing to do the dirty or illegal work for a leader or criminal
13. tra_____or circuit *n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics
14. soft lum_____nt glow *adj.* emitting light or glowing softly, often without heat; having the ability to produce or emit light, especially through chemical reactions or by absorbing and then releasing energy
15. vi_____ze data *v.* to form a mental image or concept of something; to make something visible
16. r_v up the crowd *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
17. rea_____de curtains *adj.* (of a product) already made or prepared; (of an idea or solution) preconceived or complete and requiring no further development or work

ANSWERS: 9. visualize, 10. transistor, 11. jellyfish, 12. henchman, 13. transistor, 14. luminescent, 15. visualize, 16. rev, 17. ready-made

18. excite the ne___ns *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
19. se_____in levels *n.* a neurotransmitter (= a chemical that carries nerve impulses) involved in, e.g., sleep, emotion, and memory
20. in___e his privacy *v.* to enter aggressively into another's territory by military force for conquest and occupation
21. a boss-and-he_____an relationship *n.* a loyal follower or assistant, often used to describe someone willing to do the dirty or illegal work for a leader or criminal
22. gl_____g reviews *adj.* highly enthusiastic; greatly praised
23. gl_____g cheeks *adj.* highly enthusiastic; greatly praised
24. fe___e excuse *adj.* lacking physical or mental strength; weak or frail; lacking force, effectiveness, or impact
25. a theoretical concept in neu_____nce *n.* the scientific study of the function, structure, and disorder of the brain and the nervous system
26. the branch of neu_____nce *n.* the scientific study of the function, structure, and disorder of the brain and the nervous system

ANSWERS: 18. neuron, 19. serotonin, 20. invade, 21. henchman, 22. glowing, 23. glowing, 24. feeble, 25. neuroscience, 26. neuroscience

Session 3: Fill in the Blanks

1. She tried to _____ the layout of the new house in her mind.
v. to form a mental image or concept of something; to make something visible
2. I prefer using _____ meals when short on time and don't feel like cooking from scratch.
adj. (of a product) already made or prepared; (of an idea or solution) preconceived or complete and requiring no further development or work
3. I have no intention to _____ your privacy.
v. to enter aggressively into another's territory by military force for conquest and occupation
4. The medicine works by boosting _____ levels in the brain.
n. a neurotransmitter (= a chemical that carries nerve impulses) involved in, e.g., sleep, emotion, and memory
5. The western sky was _____ pink.
adj. highly enthusiastic; greatly praised
6. The older man's _____ voice suggested he was not feeling well.
adj. lacking physical or mental strength; weak or frail; lacking force, effectiveness, or impact
7. The beach was filled with hundreds of _____ so swimming was not recommended.
n. a marine creature with a soft, jelly-like body and tentacles for stinging

ANSWERS: 1. visualize, 2. ready-made, 3. invade, 4. serotonin, 5. glowing, 6. feeble, 7. jellyfish,

8. He stepped on the gas pedal, and the engine released a loud ____.
- n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
9. The criminal's _____ carried out his dirty work.
- n.* a loyal follower or assistant, often used to describe someone willing to do the dirty or illegal work for a leader or criminal
10. The _____ stars illuminated the night sky.
- adj.* emitting light or glowing softly, often without heat; having the ability to produce or emit light, especially through chemical reactions or by absorbing and then releasing energy
11. 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
12. The invention of the _____ revolutionized the field of electronics.
- n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics
13. 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

ANSWERS: 8. rev, 9. henchman, 10. luminescent, 11. neuroscience, 12. transistor, 13. neuron