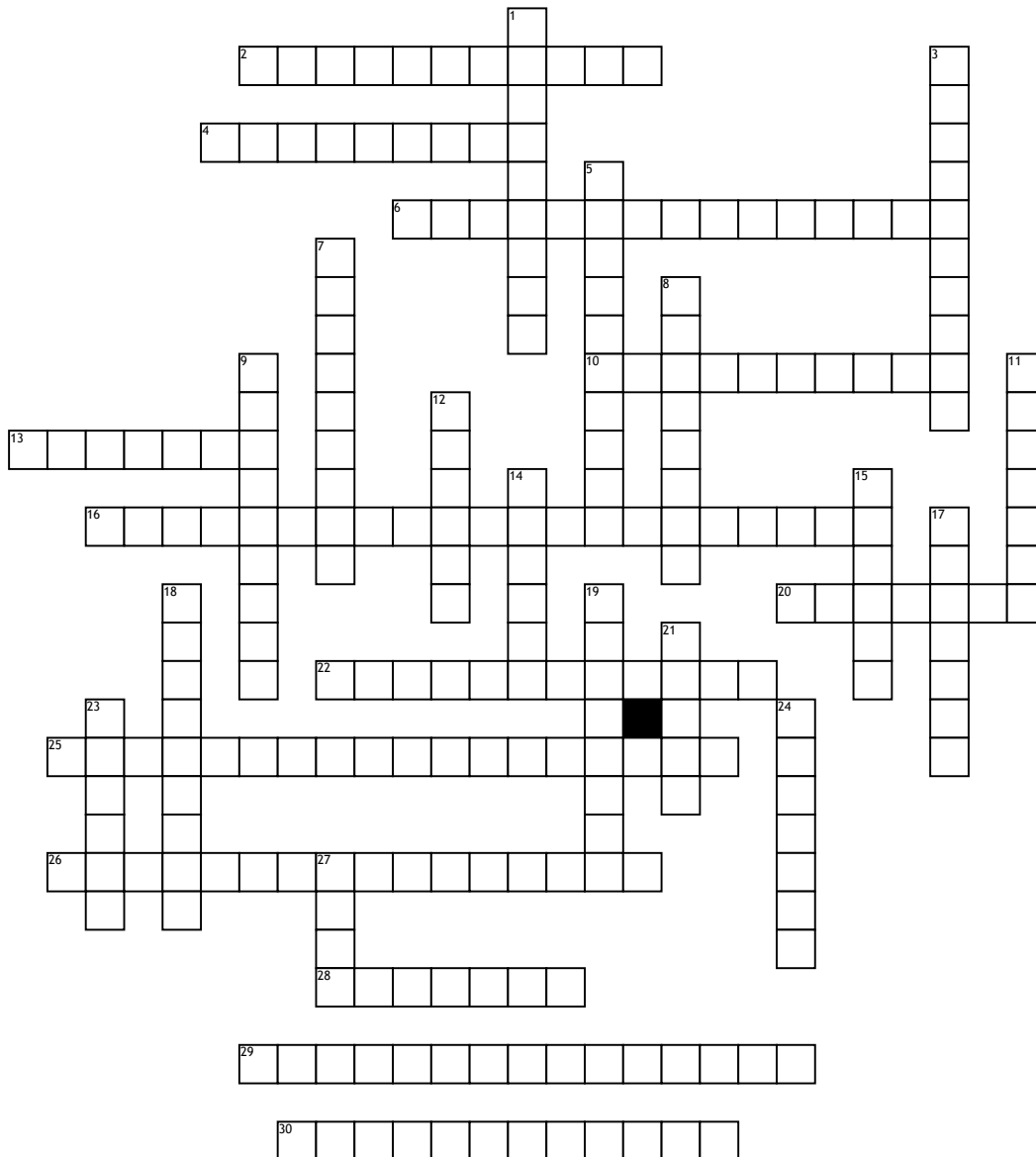


# Chapter 2 Vocabulary



## Across

2. the part of the peripheral nervous system that serves to accelerate the heart rate, constrict blood vessels, and raise blood pressure
4. the level of stimulation required to trigger a neural impulse
6. a neural impulse; a brief electrical charge that travels down an
10. the nervous system outside the brain and spinal cord
13. the part of the peripheral nervous system that is responsible for carrying motor and sensory information both to and from the central nervous system
16. concerned with the links between biology and behavior, includes psychologist working in neuroscience, behavior genetics, and evolutionary psychology
20. a pair of endocrine glands that sit just above the kidneys and secrete hormones (epinephrine and norepinephrine) that help arouse the body in times of stress
22. neurons with the brain and spinal cord that communicate internally and intervene between the sensory inputs and motor outputs
25. nerve network that travels through the brainstem and plays an important role in controlling arousal
26. a chemical messenger that carries, boosts, and modulates signals between neurons and other cells in the body
28. the network of nerve cells and fibers that transmits nerve impulses between parts of the body

29. the division of the autonomic nervous system that calms the body, conserving its energy
30. electrically insulating material that forms a layer around the axon of a neuron

## Down

1. a short branched extension of a nerve cell
3. cells in the nervous system that support, nourish, and protect neurons; they may also play a role in learning and thinking
5. "morphine within"—natural, opiate like neurotransmitters linked to pain control and to pleasure
7. the part of the peripheral nervous system that is responsible for regulating involuntary body functions such as heartbeats, blood flow, breathing and digestion
8. chemical messengers that are manufactured by the endocrine glands, travel through the bloodstream, and affect other tissues
9. a series of glands throughout the body that secrete chemical into the bloodstream
11. the nerve tissues that controls the activities of the body
12. a simple, automatic response to a sensory stimulus, such as the knee jerk response
14. any abnormal, damaged area of tissue detected in the brain
15. a specialized cell transmitting nerve impulses; a nerve cell

17. neurons that carry incoming information from the sensory receptors to the brain and spinal cord
18. the endocrine system's most influential gland. Under the influence of the hypothalamus, the pituitary regulates growth and controls other endocrine glands
19. process for the brain of neurons to retrieve chemical that were not received by the previous neuron
21. neurons that carry incoming information from the brain and spinal cord to the muscles and glands
23. bundled axons that form neural "cables" connecting the central nervous system with muscles, glands, and sense organs
24. a small gap at the end of a neuron that allows a signal to pass from one neuron to the next
27. a nerve fiber; a long slender projection of a nerve cell that conducts electrical impulses away from the neuron cell body