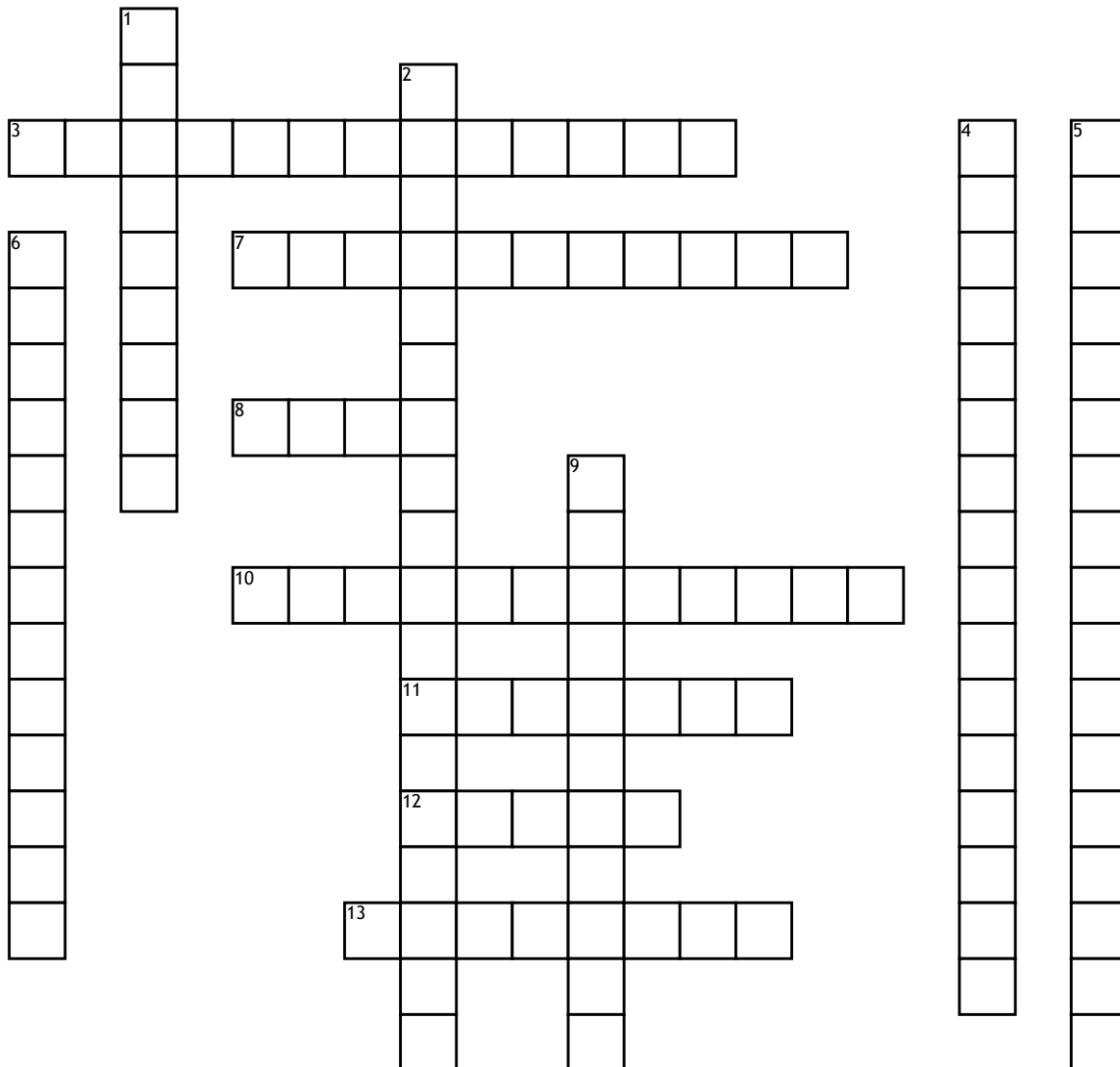


Parts of the Neuron



Across

3. Communicates with a dendrite or cell body of another neuron

7. wraps around the axons, covering the nerve fibers that form the myelin sheath

8. A long fiber of the neuron that acts somewhat like a fiber-optic cable, carrying outgoing messages

10. Formed by Schwann cell membranes; is an electrical insulator and aids in transmission of nerve impulses

11. A special type of cell organelle that acts as the cell's "control center" It contains the cell's genetic information in the form of DNA chemicals packaged into chromosomes

12. The space between two neurons or a neuron and another cell where neurotransmitters cross

13. The part of a nerve cell that contains the nucleus but does not incorporate the dendrites or axon

Down

1. Slender branches of the neuron that transmit nerve impulses from other cells or sensory systems

2. A special type of cell organelle in the Schwann cell that acts as the cell's "control center" It contains the cell's genetic information in the form of DNA chemicals packaged into chromosomes

4. Branch-like endings of an axon that has specialized endings that release neurotransmitters

5. Acetylcholine is a neurotransmitter, a small molecule that plays a role in transmitting signals along neurons; stored in sacs

6. A small gap in the myelin sheath where the axon is exposed

9. A single muscle cell; when activated by a nerve, it increases the tension within the muscle