

# Middle School Neuroscience Basics

Neuroscience · Practice Test · 10 Questions

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**1. What is the primary function of neurons in the nervous system?**

- A) To store memories long-term
- B) To transmit electrical and chemical signals
- C) To protect the brain from injury
- D) To produce hormones for growth

**2. Which part of the brain is primarily responsible for balance and coordination?**

- A) Cerebrum
- B) Brainstem
- C) Cerebellum
- D) Hypothalamus

**3. The central nervous system consists of which two main components?**

- A) Brain and spinal cord
- B) Brain and nerves
- C) Spinal cord and muscles
- D) Eyes and ears

**4. What is the name of the gap between two neurons where signals are transmitted?**

- A) Axon
- B) Dendrite
- C) Synapse
- D) Myelin sheath

**5. Which lobe of the brain is mainly involved in processing visual information?**

- A) Frontal lobe
- B) Temporal lobe
- C) Parietal lobe
- D) Occipital lobe

**6. The peripheral nervous system includes all of the following EXCEPT:**

- A) Cranial nerves
- B) Spinal nerves
- C) Brain
- D) Autonomic nerves

**7. When you touch a hot stove, which type of neuron quickly sends a signal to your spinal cord to withdraw your hand?**

- A) Motor neuron
- B) Sensory neuron
- C) Interneuron
- D) Receptor neuron

**8. What is the main function of the cerebrum?**

- A) Regulating breathing and heart rate
- B) Processing emotions and memory
- C) Controlling voluntary movements and higher-level thinking
- D) Relaying sensory information to the cortex

**9. Which part of the neuron receives signals from other neurons?**

- A) Axon
- B) Cell body (soma)
- C) Dendrite
- D) Terminal button

**10. The myelin sheath around an axon serves what purpose?**

- A) To connect neurons together
- B) To insulate the axon and speed up nerve impulse transmission
- C) To produce neurotransmitters
- D) To receive incoming signals