

The Nervous System ▪ *Reading/Notetaking Guide***How the Nervous System Works** (pp. 600–604)

This section describes what the nervous system does in the body. It also tells how nerve impulses travel.

Use Target Reading Skills

As you read, identify the main idea of the section and three details that support the main idea. Use the graphic organizer below to list the main ideas and supporting details.

How the Nervous System Works			
Main Idea			
Detail		Detail	
Detail		Detail	
a.	b.	c.	

Functions of the Nervous System (pp. 600–601)

- List three jobs of the nervous system.
 - _____
 - _____
 - _____
- Is the following sentence true or false? You can move without the functioning of your nervous system. _____

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3. From what two places does the nervous system receive information?

a. _____ b. _____

4. Circle the letter of a change in the environment that can make an organism react.

- a. response
- b. stimulus
- c. homeostasis
- d. nerve impulse

5. Is the following true or false? All nervous system responses are voluntary, or under your control. _____

6. How does the nervous system help maintain homeostasis?

The Neuron (p. 602)

Match each term with its definition.

Terms

_____ 7. axon

_____ 8. dendrite

_____ 9. neuron

_____ 10. nerve impulse

Definitions

a. The message that a nerve cell carries

b. An extension from a nerve cell that carries impulses toward the nerve cell

c. An extension from a nerve cell that carries impulses away from the nerve cell

d. A cell that carries information through the nervous system

11. Is the following sentence true or false? A neuron can have only one axon.

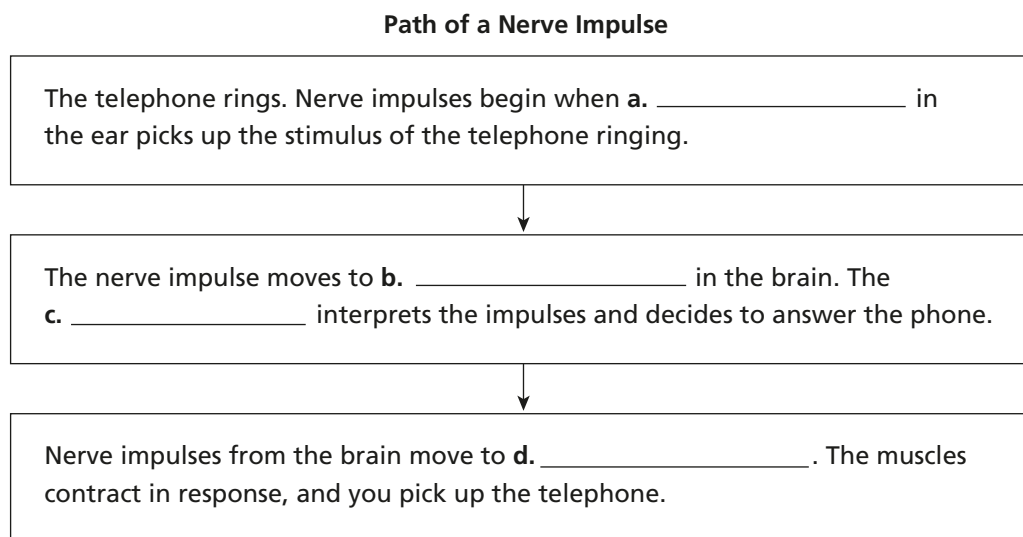
12. A bundle of nerve fibers is called a(n) _____.

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How the Nervous System Works *(continued)*

How a Nerve Impulse Travels (pp. 602–604)

13. Complete the flowchart to show the path of a nerve impulse.



14. The junction where one neuron can transfer an impulse to another structure is called a(n) _____.
15. How does a nerve impulse cross the gap between the axon and the next structure?
