

Name _____

Class _____

Date _____

18-1 What is the nervous system?

Lesson Review

Match each term in **Column B** with its description in **Column A**. Write the letter of the correct term in the space provided.

Column A

- _____ 1. nerve cell
- _____ 2. fiber that carries messages away from a nerve cell
- _____ 3. protects the brain
- _____ 4. protects the spinal cord
- _____ 5. fiber that carries messages to the nerve cell body
- _____ 6. control center of the body
- _____ 7. group of many nerves that extend down the back
- _____ 8. brain, spinal cord, and nerves
- _____ 9. gap between the axon of one cell and the dendrite of another

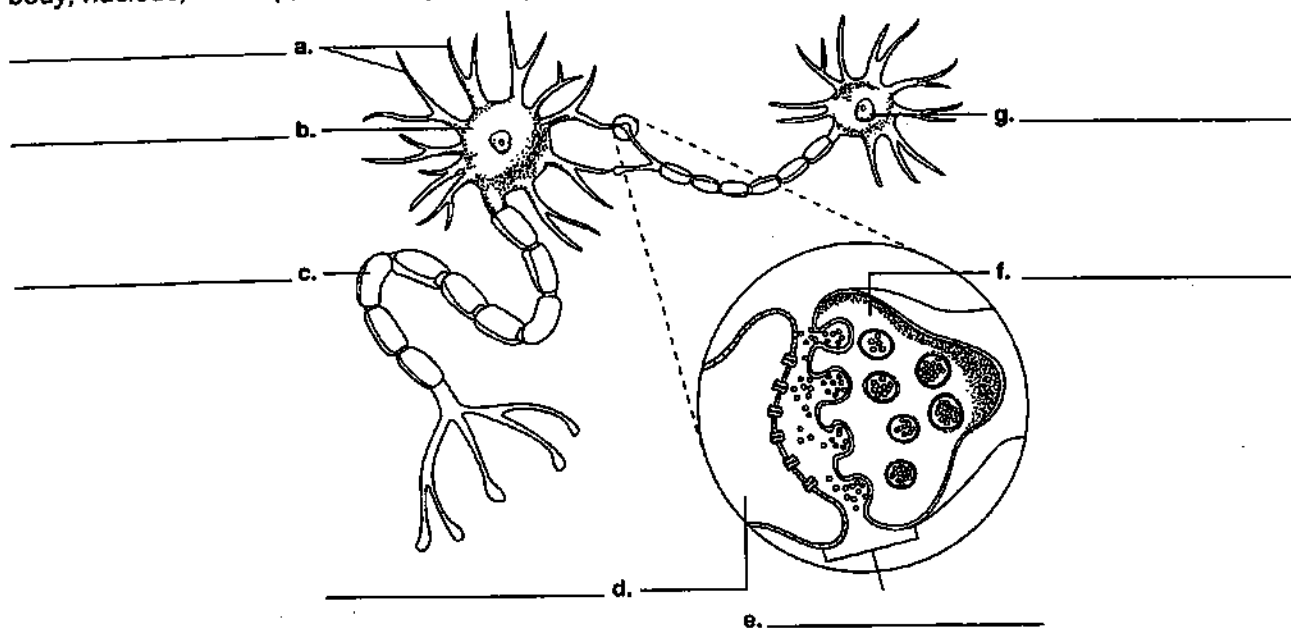
Column B

- a. axon
- b. dendrite
- c. neuron
- d. skull
- e. nervous system
- f. spinal cord
- g. brain
- h. synapse
- i. backbone

Skill Challenge

Skills: labeling, diagramming

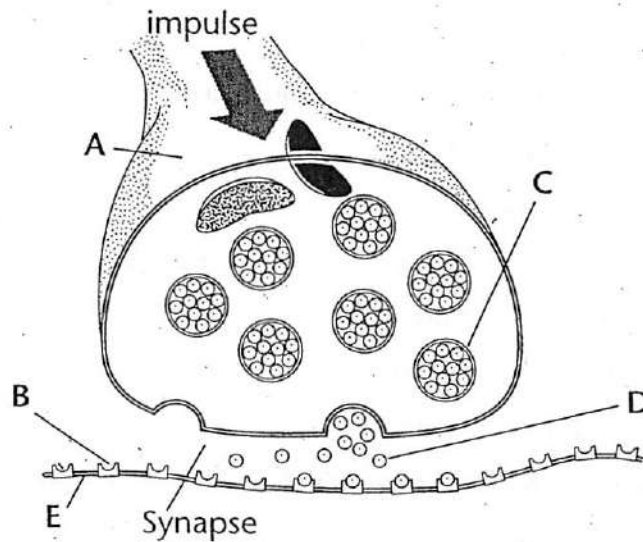
Label the parts of the nerve cells shown, using the labels *axon*, *dendrites*, *cell body*, *nucleus*, *axon tip*, *dendrite tip*, and *synapse*.



Worksheet 49

Synaptic Transmission

PART A Use the diagram to answer the questions below



1. If this was a synapse between a motor neuron and a muscle, which of the letters would represent the muscle cell?

cell membrane E

2. Which letter would designate the synaptic knob of the neuron?

A

3. What is inside the structure labeled C?

Neurotransmitter - chemical

4. Which of the labeled structures represents a receptor site?

B

PART B In the space below, draw a diagram that shows what happens when a nerve impulse arrives at a synapse.

