

Nerve Cells Outline (N-2A)

Read pages 465-467 of *Middle School Life Science* (Kendall/Hunt) and fill in this outline.

- I. Nervous System:** A control system made up of the _____, _____, and _____.
- A.** Creates actions such as _____ and _____.
- B.** Receives _____ from the outside of the body.
1. Stimuli are _____ or _____ that cause an organism to react, sending _____ messages to parts of the body, causing them to respond.
- C.** Nervous system is made up of _____.
1. _____ are _____ cells that send electrical messages.
 2. The central part of a neuron is called a _____, off of which many _____ extend.
 3. The shorter fibers are called _____.
 4. The single long fiber on the other side is called an _____.
 - a. _____ carry messages to the cell body.
 - b. _____ carry messages away from the cell body.
 - c. These messages are called _____.
 - d. Axons and dendrites are covered by a _____ to prevent _____ from jumping.
- D.** _____ is the space between two neurons that the impulse is sent through.
1. Impulses move when _____ are released from the end of the _____ that move across the synapse to the dendrites of the next nerve cell.
- E.** Neurons vary in _____, _____, number of _____, and _____ size.
- F.** There are three kinds of neurons.
1. _____ neurons carry impulses from _____ the body to the spinal cord or brain.
 2. _____ neurons carry impulses from the spinal cord or brain to the _____.
 3. _____ neurons inside spinal cord and the brain. These link _____ and _____ neurons.

NEXT, complete the review questions on page 467, in **complete sentences**. (Please staple together this outline and your answers to the review questions.)