

Nervous System Study Guide

1. Identify the main function of the nervous system. **-To control the body's activities by relaying messages**
2. Identify the main divisions of the nervous system and list the body parts included in each division.
a) **central nervous system = brain and spinal cord**
b) **peripheral nervous system = nerves**
3. Label the main parts of the neuron (dendrites, cell body, nucleus, axon, axon tips).



4. List the function of each part of a neuron.
a) **dendrites—carry a nerve impulse to the cell body**
b) **cell body—contains the nucleus**
c) **nucleus—control center of the cell**
d) **axon—carry a nerve impulse away from the cell body**
e) **axon tips—release the nerve impulse**
5. Describe how two neurons are ~~always~~ joined. (_____ end to _____ end).
Neurons are always joined axon end to dendrite end.
6. Identify what a synapse is and how two joined neurons overcome a synapse.
A synapse is the gap between two neurons. The nerve impulse travels as an electrical impulse through the neuron. However, the nerve impulse becomes a chemical impulse as it travels across the synapse.
7. What is membrane potential?
Membrane potential is the electrical charge that exists on the membranes of every cell.

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S Ben Porath



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