

Main Topic: Nervous System

Learning Objectives/Outcomes:

1. Identify the structures of the nervous system
2. Describe the main functions of the nervous system
3. Investigate how organisms respond to internal and external stimuli

Topic 1: Nervous System	Topic 2: Central Nervous System (CNS)	Topic 3: Peripheral Nervous System (PNS)	Topic 4: Neurons
<p><u>Ideas</u> Define stimulus</p> <p>What are the three ways the nervous system helps adjust to changing stimuli?</p> <p>Explain homeostasis</p> <p>What are the two parts of the nervous system?</p>	<p><u>Ideas</u> The central nervous system contains the brain and spinal cord. What are the functions of the body's control center?</p> <p>Define contralaterality.</p> <p>What are the 4 lobes of the cerebrum?</p> <p>Explain the function of each lobe in the cerebrum.</p> <p>What is the function of the cerebellum?</p>	<p><u>Ideas</u> What is the peripheral nervous system made up of?</p> <p>How many pairs of nerves are there in the PNS?</p> <p>What two types of information do nerves carry?</p> <p>Name and explain the special receptors in nerves.</p> <p>What are the two parts that the PNS is divided into?</p> <p>Explain what somatic means.</p>	<p><u>Ideas</u> What are nervous system cells called?</p> <p>What is a soma?</p> <p>What is a dendrite?</p> <p>What is an axon?</p> <p>How do neurons communicate with each other?</p> <p>Name and explain the three neuron types.</p> <p>What is a reflex arc?</p>

	<p>Explain the function of the brain stem.</p> <p>What is the importance of the spinal cord?</p> <p>What is the spinal cord made up of?</p>	<p>Explain what autonomic means.</p>	<p>What are the steps in a reflex arc?</p>
<p><u>Key Vocabulary</u></p> <p>Stimulus-</p> <p>Homeostasis-</p>	<p><u>Key Vocabulary</u></p> <p>Cerebrum-</p> <p>Cerebellum-</p> <p>Brain stem-</p>	<p><u>Key Vocabulary</u></p> <p>Peripheral Nervous System (PNS)-</p> <p>Somatic-</p> <p>Autonomic-</p>	<p><u>Key Vocabulary</u></p> <p>Neuron-</p> <p>Soma-</p> <p>Dendrite-</p> <p>Axon-</p> <p>Synapse-</p> <p>Reflex arc-</p>

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