

Topic/Objectives: 8-4 The Brain; Name the major parts and functions of the brain.	Name:
	Date:
	Period:

**Essential Question:** What are the major parts of the brain and their functions?

Questions:	Notes:
	<p>Structure of the Cerebrum</p> <ul style="list-style-type: none"> <li>◦ Consists of two hemispheres, connected by a deep ridge of nerve fibers called the _____</li> <li>◦ Lobes are named after the _____ they underlie (frontal, parietal, temporal, and occipital).</li> <li>◦ A thin layer of gray matter ( _____ ) lies on the outside of the cerebrum, containing 75% of the cell bodies in the nervous system.</li> <li>◦ Beneath the cortex lies a mass of white matter, which is _____ nerve fibers connecting the cortex with the rest of the nervous system.</li> </ul>
	<p>Function of the Cerebrum</p> <ul style="list-style-type: none"> <li>◦ The _____ provides higher brain function such as: interpretation of sensory input, memory, and integrating information for reasoning.</li> <li>◦ Both hemispheres function in sending information to the _____ sides of the body. <ul style="list-style-type: none"> <li>◦ Most people exhibit _____ (90% are left) for the language-related activities of speech, writing, and reading.</li> <li>◦ The non-dominant hemisphere specializes in non-verbal functions and controls emotions and intuitive thinking.</li> </ul> </li> </ul>
	<p>The _____ lies above the brain stem and contains the thalamus and hypothalamus.</p> <ul style="list-style-type: none"> <li>◦ _____ – sorts and directs arriving sensory information.</li> <li>◦ _____ – maintains homeostasis and links the endocrine and nervous systems.</li> </ul> <p>The _____ integrates sensory information relative to the position of body parts, coordinates skeletal muscle activity, and maintains posture.</p>

