



Name _____ Class _____ Date _____

Parts of the Brain

The brain consists of several large regions: **brainstem, cerebellum, limbic system, diencephalon** and **cerebral cortex**.

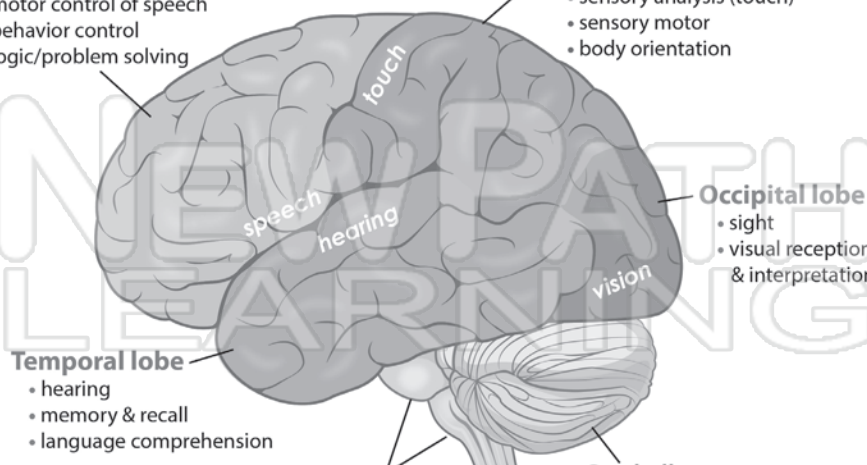
The cerebral cortex is divided into right and left **hemispheres** and lies over and around other structures of the brain. It is the most highly developed part of the human brain and is responsible for *thinking, perceiving, and problem solving*. The cerebral cortex can be divided into **4 lobes**.

Frontal lobe

- motor control of speech
- behavior control
- logic/problem solving

Parietal lobe

- sensory analysis (touch)
- sensory motor
- body orientation



Temporal lobe

- hearing
- memory & recall
- language comprehension

Occipital lobe

- sight
- visual reception & interpretation

PREVIEW

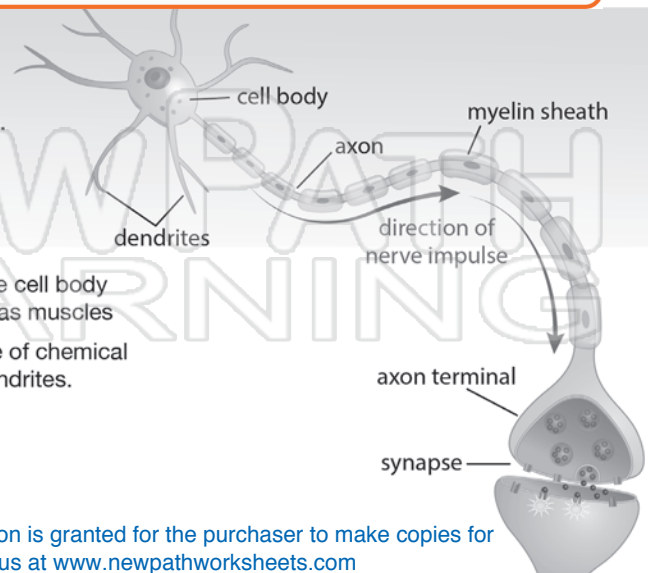
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Nerve Cells

The brain is made up of billions of nerve cells, called **neurons**. The shapes and sizes of neurons vary, as well as their functions. Typically, a neuron contains three parts:

- **central cell body** - that directs all activities of the neuron
- **dendrites** - short fibers that receive messages from other neurons
- **axon** - a long single fiber that transmits messages from the cell body to the dendrites of other neurons or to body tissues, such as muscles

Communication between nerve cells occurs through the release of chemical substances into the space (**synapse**) between the axon and dendrites.

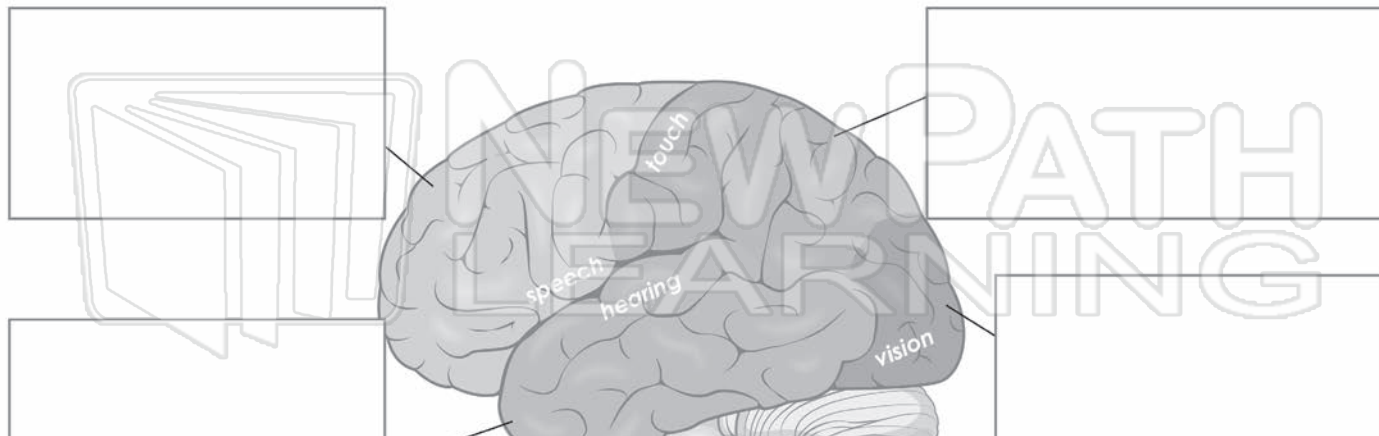




Name _____ Class _____ Date _____

Parts of the Brain

The brain consists of several large regions: _____



PREVIEW

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Nerve Cells (Neurons)

Describe the 3 parts of a neuron: _____