BRAIN HEMISPHERE HAT

Materials

- Brain Hemisphere Hat Template
- Scissors
- Tape

Instructions

The human brain is the command center for the human nervous system. It receives signals from the body's sensory organs and outputs information to the muscles. It controls involuntary functions such as breathing and cardiac contractions. It also is the location of higher-level functions such as language, conscious thought and reasoning. This activity helps the child recognize the different sections of the human brain and what each area is responsible for body and cognitive function. Cut out the included brain hemisphere hat template. Cut along each side of the wedges and pull each (now cut) dashed line over until it touches the opposite line and secure with tape or glue. Note: if using glue, hold together with clothes pins or paper clips while drying. Continue pleating until you form a half hemisphere. It should look now as a half-round shape. Attach both sides with tape to form a full brain. Attach the cerebellum and brain stem to back to complete hat. Discuss what functions each lobe performs. Compare the right and left side, what functions are the same? Different?













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Brain Hemisphere Hat

right side

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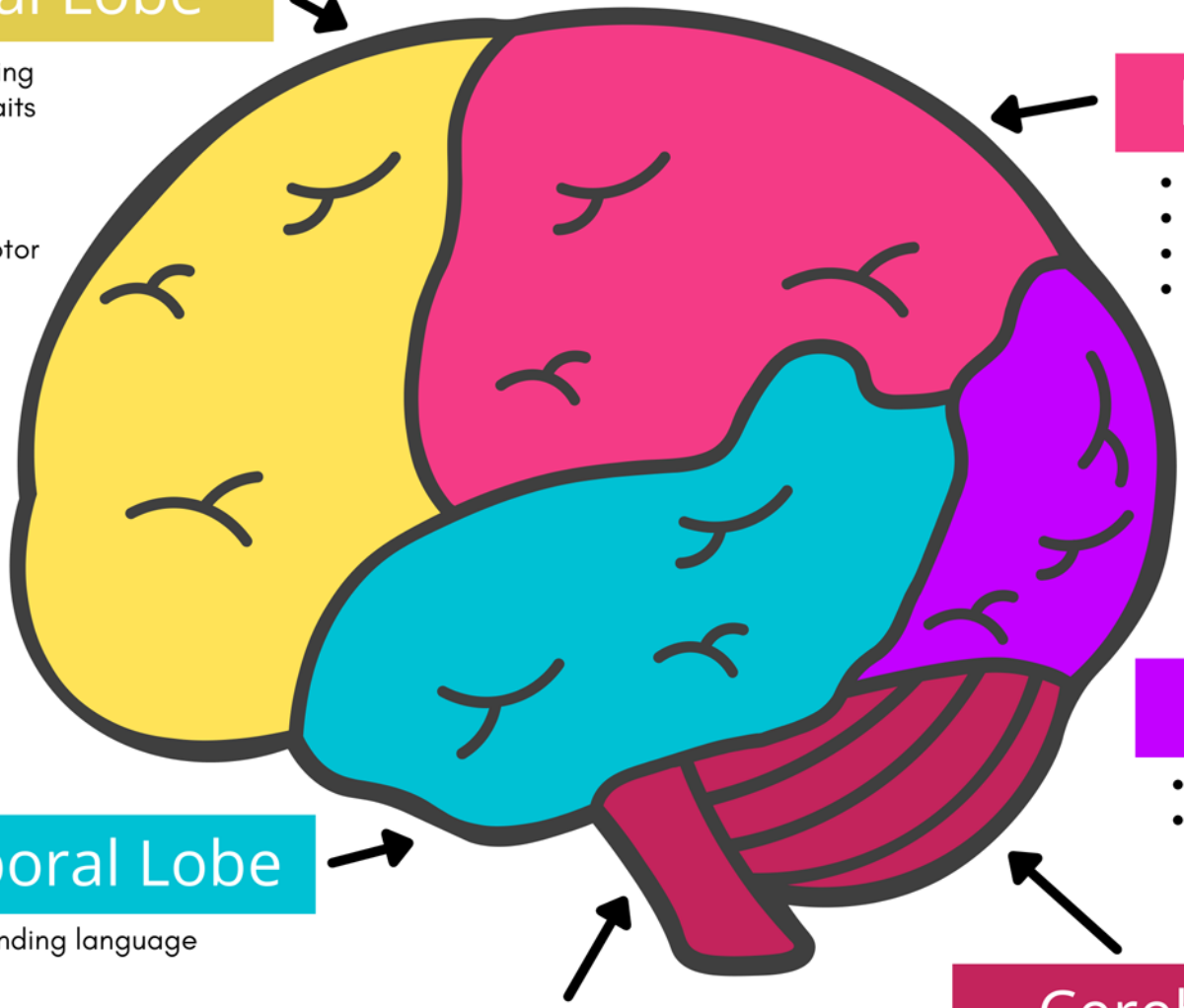
Brain Hemisphere Hat

left side



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Parts of the Brain



Frontal Lobe

- Problem solving
- Emotional traits
- Reasoning (Judgement)
- Speaking
- Voluntary motor activity

Parietal Lobe

- Knowing right from left
- Sensation
- Reading
- Body orientation

Occipital Lobe

- Vision
- Color perception

Temporal Lobe

- Understanding language
- Behavior
- Memory
- Hearing

Brain Stem

- Breathing
- Body temperature
- Digestion
- Alertness/sleep
- Swallowing

Cerebellum

- Balance
- Coordination and control of voluntary movement
- Fine muscle control

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PLAYDOUGH NEURON ANATOMY

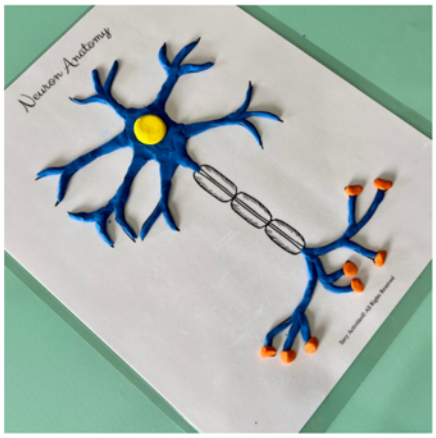
Materials

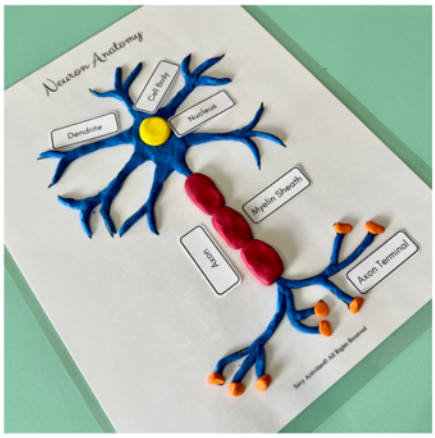
- Playdough or Clay (3-4 Colors)
- Neuron Template

Instructions

Neurons are the fundamental units of the brain and nervous system, the cells responsible for receiving sensory input from the external world, for sending motor commands to our muscles, and for transforming and relaying the electrical signals at every step in between. They also have a very unique shape, which helps their function. Use the included template to help shape the cell parts. It is helpful to have at least 3-4 different types of playdough or clay to easily identify the different features of this cell. Have the child form the different parts of the neuron and then use the included labels to label each part of the neuron. Discuss - what is the main part of the cell? How does the structure of the cell help it send electrical signals? What purpose does the myelin sheath perform?



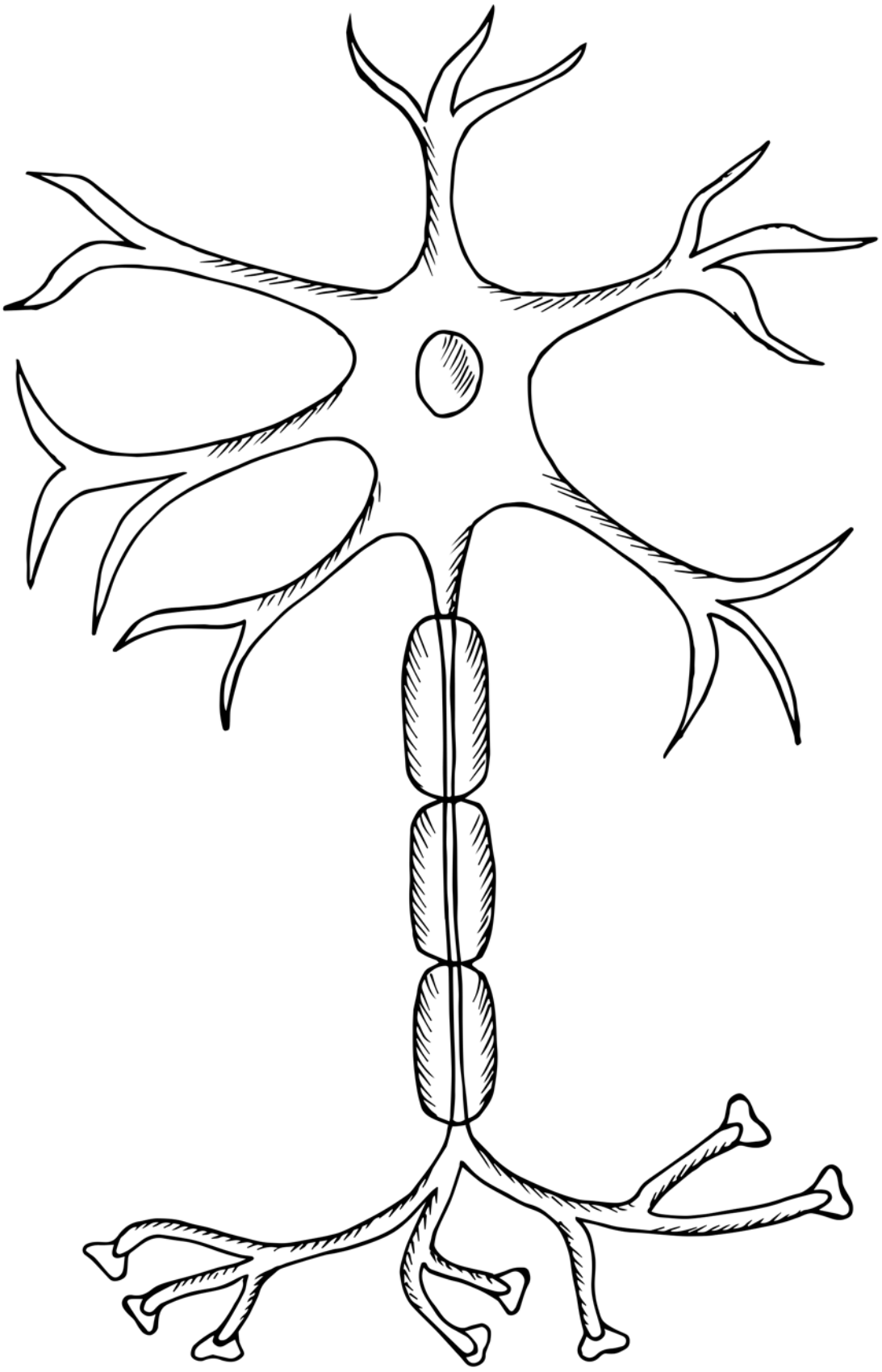




Dendrite	Cell Body	Nucleus
Axon	Myelin Sheath	Axon Terminal

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Neuron Anatomy



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