



The Brain...continued

Where does complex thought and behavior come from?

Class Objectives

- Identify and discuss structures of the forebrain
- Discuss how these structures influence behavior

Concept Check

Did you get it?

- What is the main function or purpose of the nervous system?

Why are they different?

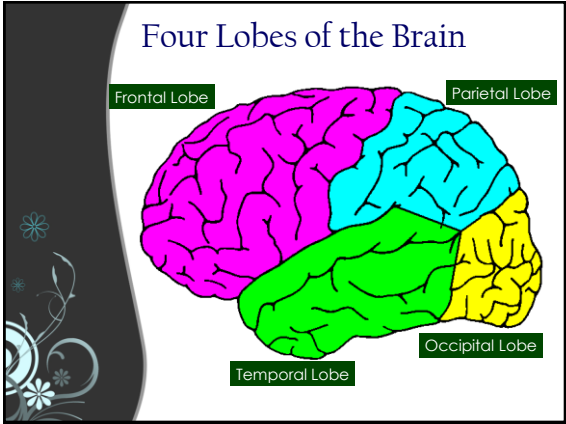
- In humans, this area makes up _____
 - compared with just 30 to 40 percent in most other mammals.
- More recently evolved animals have a _____

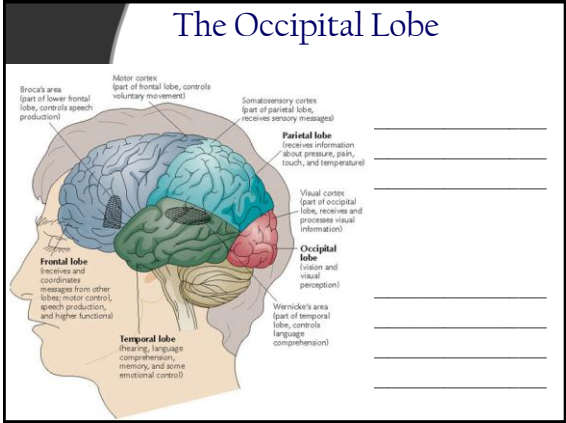
The size of the _____ in mammals is strongly related to the size of the social group in which the organisms live.

It is theorized that this part of the human brain, which is responsible for high-level

Cerebral Cortex

- The cerebral cortex is responsible for the most complex mental activities including _____
- This area is made up of four lobes:
 - Occipital Lobe
 - Parietal Lobe
 - Temporal Lobe
 - Frontal Lobe





Temporal Lobe

- The main processing area for _____
- Is the main processing area for some of the complex aspects of vision
 - _____
 - _____
- Involved in aspects of learning, memory, and emotions

The Frontal Lobe

- The frontal lobe is involved in _____

- Some neuroscientists refer to the prefrontal cortex as an *executive control system* because of its role in _____

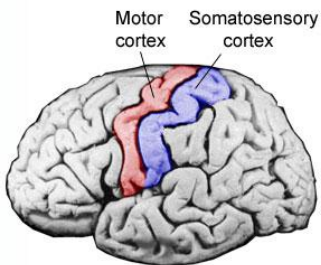
- The prefrontal cortex is involved in higher cognitive functions such as planning, reasoning, and self-control.

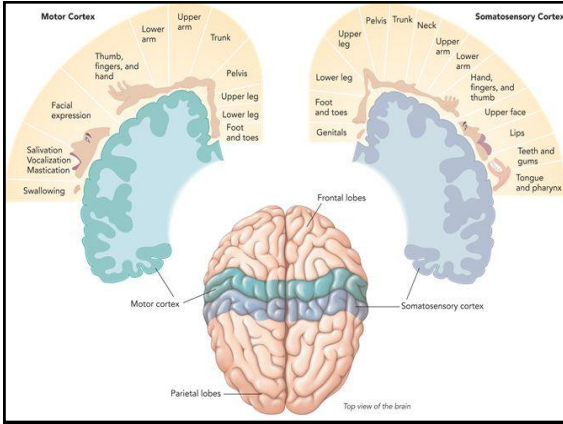
Parietal Lobe

- Parietal Lobe is the area that is specialized for the _____

- The parietal lobe is involved with processing information related to:

The Somatosensory and Motor Cortex





The Somatosensory Cortex, is a band of tissue on the front of the parietal lobe

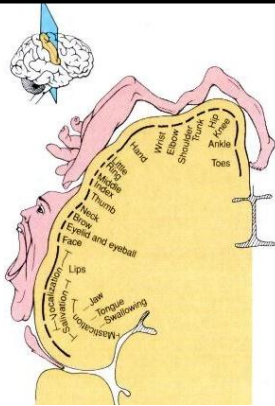
Each area of the *primary somatosensory*

- Larger areas are devoted to touch in the _____
- _____
- _____
- Smaller areas are devoted to touch in less sensitive parts of the body such as the _____
- _____
- _____

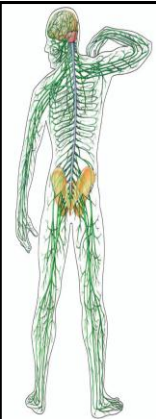
Motor Cortex

- _____
- Each area of the primary motor cortex
 - Larger areas are devoted to precise movements of the _____
 - Smaller areas are devoted to movements of the _____

Motor Homunculus



The brain controls the sensation and the movements of the body



Next Class...

- Genetics ad behavior
- Chapter 9-
Human Development
