

Class Objectives

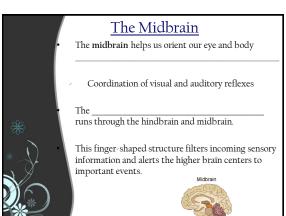
- Identify and discuss the mid brain and forebrain.
- Identify and discuss structures of the mid brain and forebrain
 - Discuss how these structures influence behavior

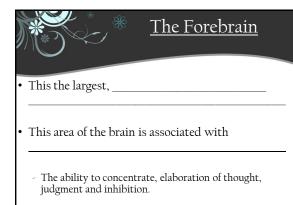
Concept Check Did you get it?

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

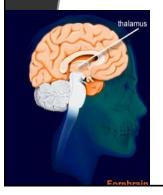




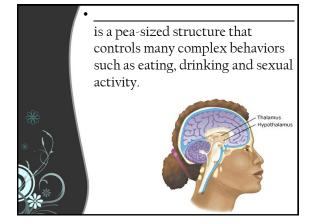




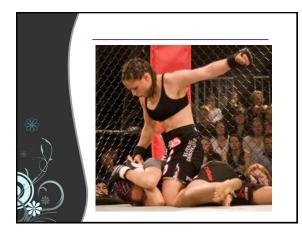
Forebrain

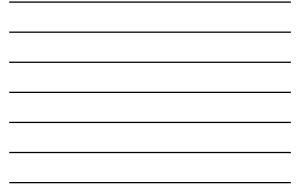


• Processes sensory information from the CNS before it reaches the cerebral cortex

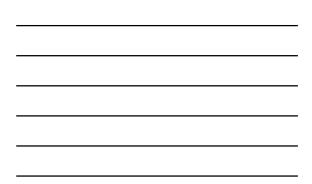


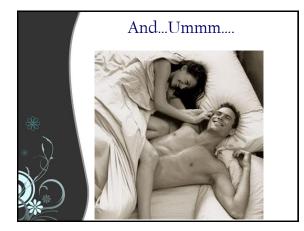








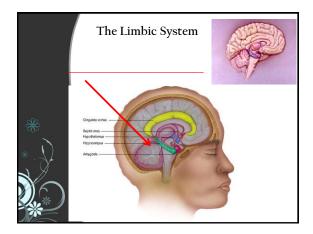




Where do my emotions come from?

- The <u>limbic system</u> is an interconnected group of structures that are especially significant in _____
 - This is referred to as the "pleasure center" of the brain

The limbic system also includes the



Can pleasure take us over?

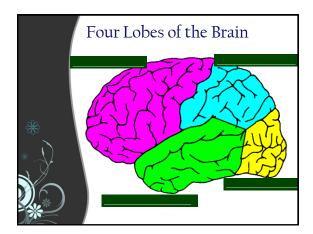
_____ Research has shown that rats who received electrical stimulation will repeatedly press a lever which activates this region-producing pleasure (Olds & Milner, 1954).

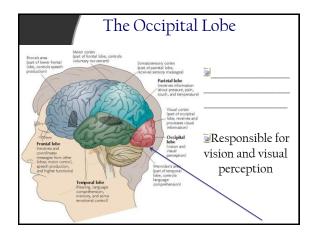
ecent research suggests that there is a link etween ______ and the timulation of these areas (Volvow et al., 2002).



• The cerebral cortex is responsible for the most complex mental activities including learning, remembering, thinking, and consciousness

- This area is made up of four lobes:
- Occipital Lobe
- Parietal Lobe
- Temporal Lobe
- Frontal Lobe



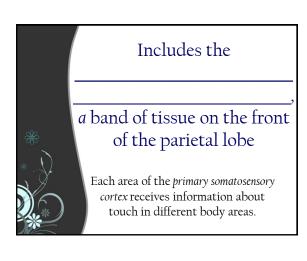


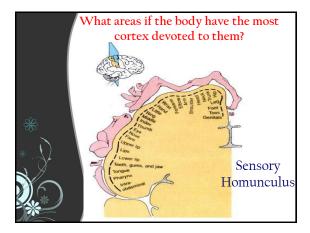


Parietal Lobe

- Parietal Lobe is the area that is specialized for the _____
- The parietal lobe is involved with processing information related to:

Awareness of the location of body parts



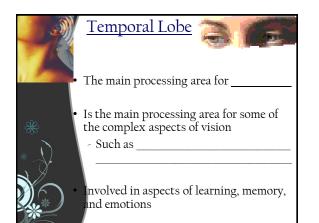




are devoted to touch in the most sensitive parts of the body such as lips and hands.

•<u>Smaller areas</u> are devoted to touch in less sensitive parts of the body such as the





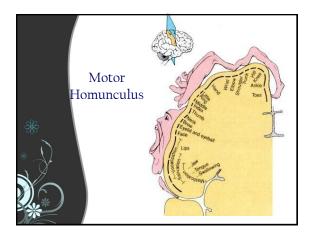


Frontal Lobe

• Each area of the primary motor cortex controls a different _____

 Larger areas are devoted to precise movements of the tongue and fingers

Smaller areas are devoted to movements of the shoulders and elbows





Frontal Lobe Continued... Includes the <u>Prefrontal Cortex</u> Critical for planning movements and for certain aspects of memory, problem solving, emotion, complex thought

<u>Next Class...</u>

- Life Span Development