

# THE BRAIN

## Functions of the Brain

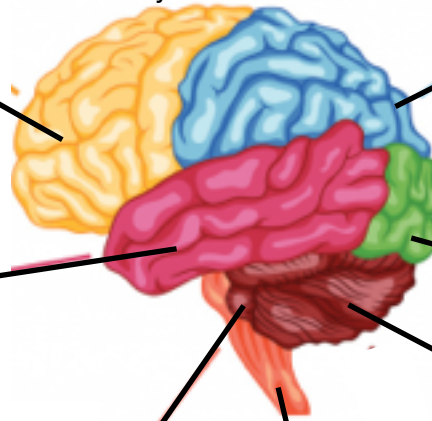
Name \_\_\_\_\_

**Frontal Lobe:** Responsible for thinking and creativity

Movement (voluntary)  
Emotional Control  
Complex Problem Solving  
Concentration  
 Intelligence  
 Reasoning  
 Behavior  
 Memory  
 Personality  
 Planning  
 Decision making  
 judgement  
 inhibition  
 mood

**Parietal Lobe:**

Sensory Cortex  
Sensory and Perception  
Visual / Spatial Orientation  
 Intelligence  
 Reasoning  
 Language  
 Sensation  
 Reading  
 Telling Right from Left



**Temporal Lobe:**

Hearing "auditory"  
Balance and Equilibrium  
Smell  
Some Language comprehension  
Emotion and Motivation  
 Speech  
 Behavior  
 Memory

**Occipital Lobe:** Receives and processes visual information

**Cerebellum:** Little Brain  
 Enables nonverbal learning and memory

Judge Time  
Alter our Emotions  
Discriminate sounds  
Coordination  
 Balance  
 Muscle Control

**Pituitary Gland:**

Hormones  
Growth  
Fertility

**Brain Stem:** Most inner region of the Brain

Breathing  
Blood Pressure  
Heartbeat  
Swallowing

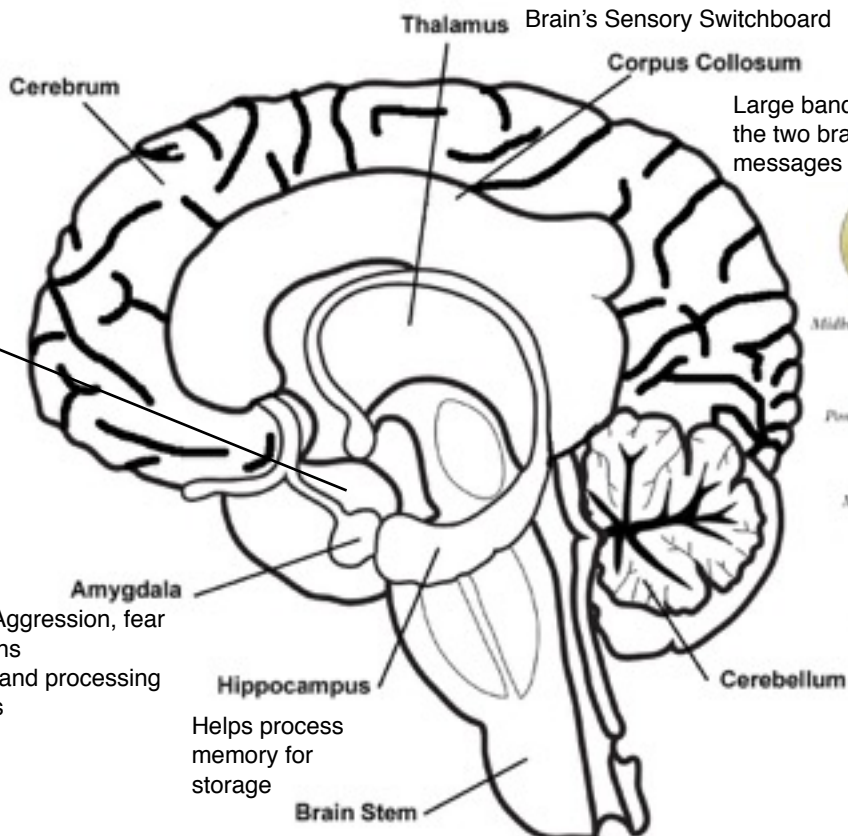
## Limbic System

**Hypothalamus:**

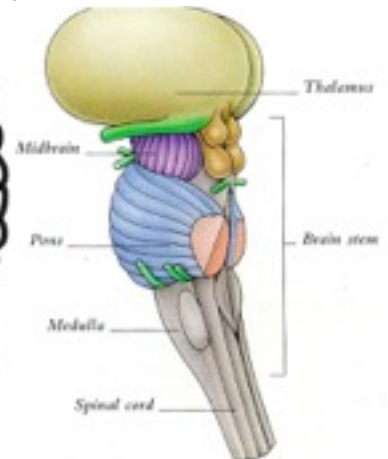
Influences hunger, thirst, body temperature, monitors blood chemistry

Regulates Aggression, fear and emotions  
 Perception and processing of Emotions

Hippocampus  
 Helps process memory for storage



Large band of neural fibers connection the two brain hemispheres that carry messages between them



# Divisions of the Brain

Name \_\_\_\_\_



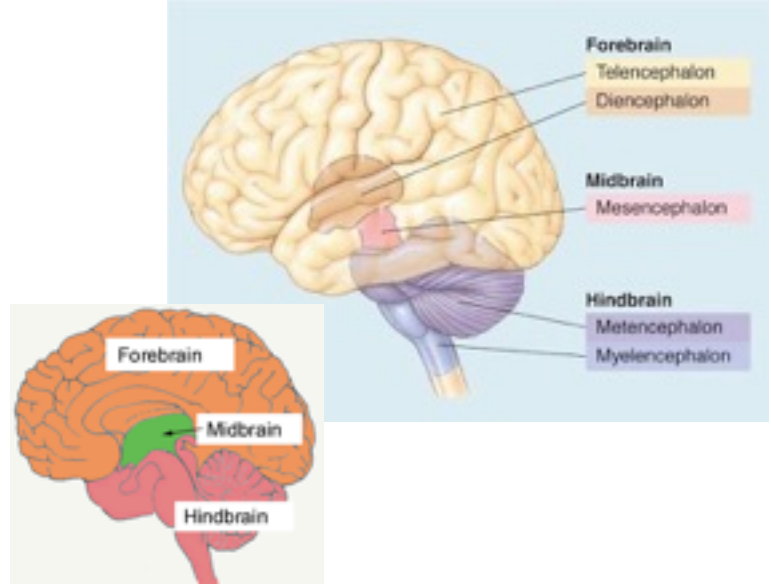
**Forebrain**  
Controls Thought and Reason



**Midbrain**  
Located Between forebrain and hindbrain. Simple movements and sensory information



**Hindbrain**  
Structure at the top of the Spinal Cord. Life support system



# Left and Right Hemisphere

## Cerebral Cortex aka The Cerebrum

**FRONTAL LOBE**

**PARIETAL LOBE**

**TEMPORAL LOBE**

**OCCIPITAL LOBE**

**LEFT:**  
Reading, writing, speaking, arithmetic

**RIGHT:**  
Perceptual Tasks and Understanding Speech

