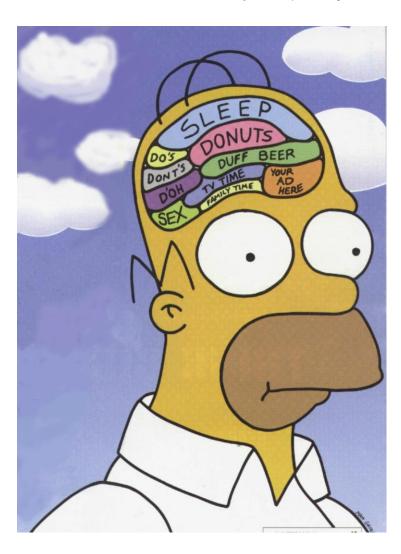
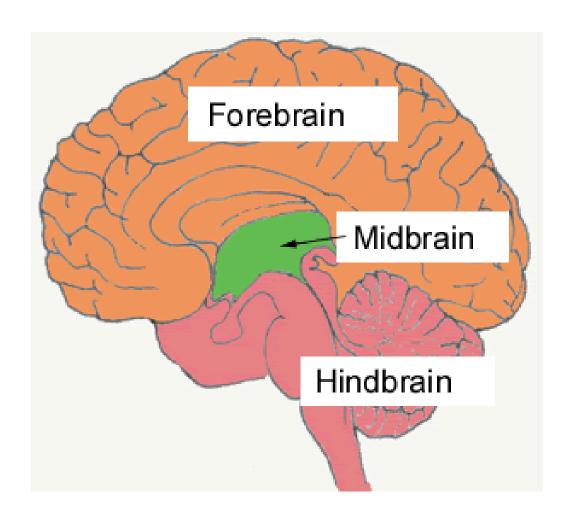
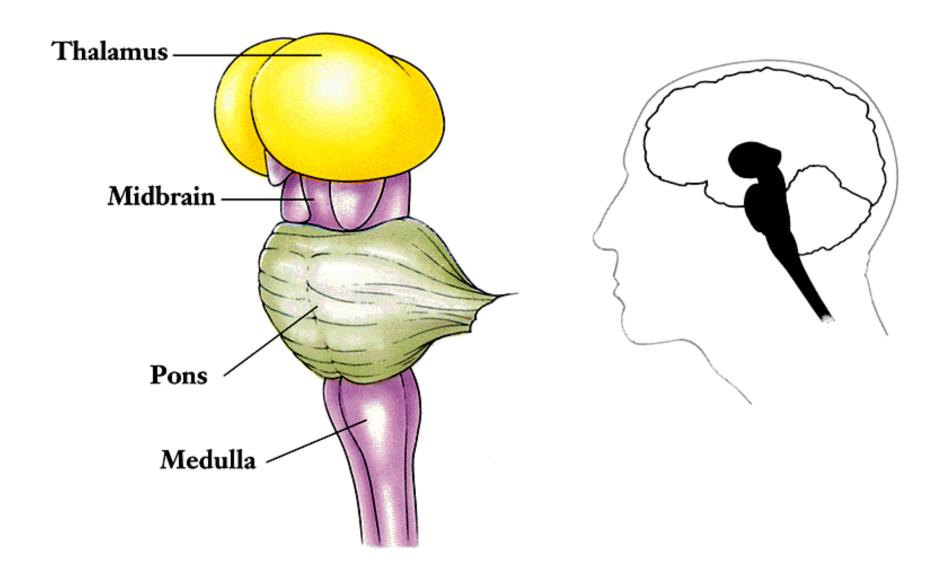


Brain Structures



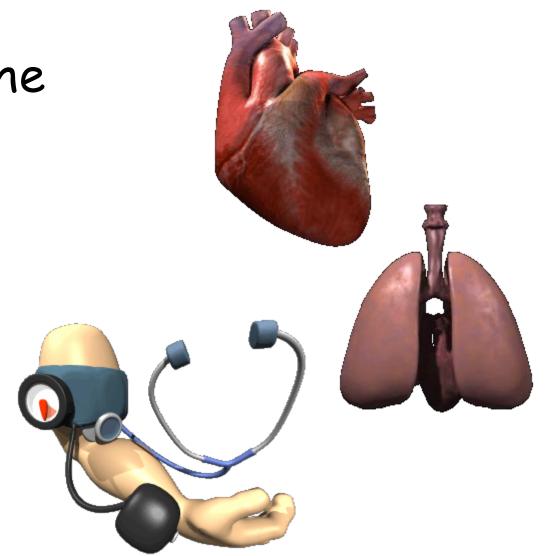
- Some scientists divide the brain up into three parts.
- Hindbrain
- Midbrain
- Forebrain

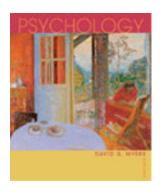


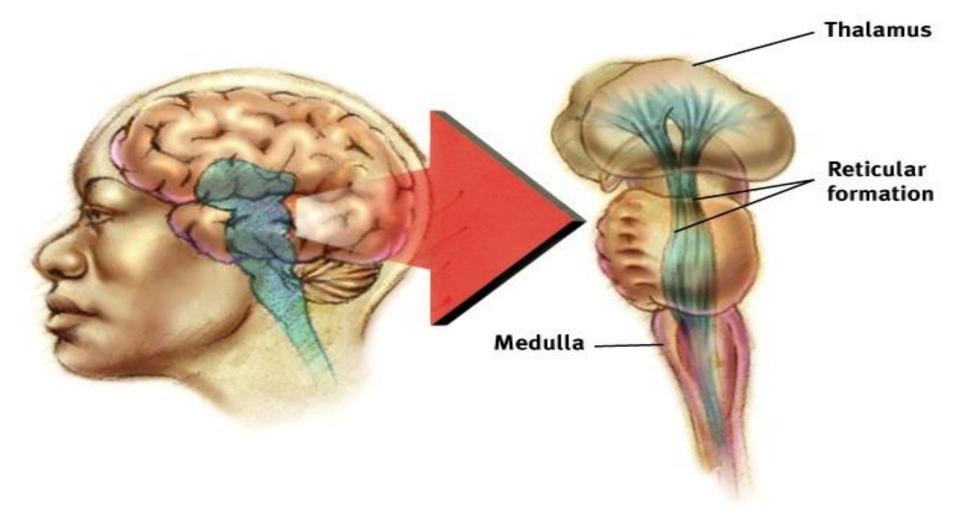


Medulla Oblongata

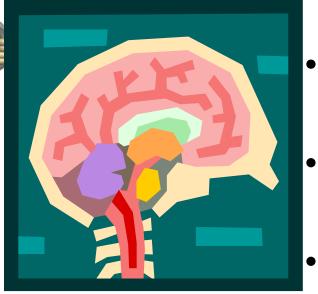
- The oldest part of the brain.
- Heart rate
- Breathing
- · Blood Pressure









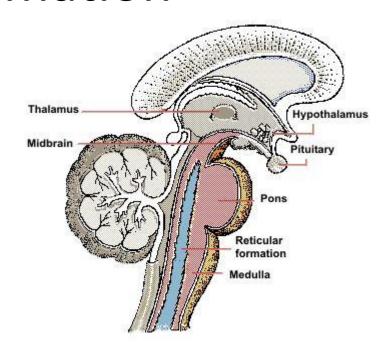


- Connects hindbrain, midbrain and forebrain together.
- Involved in facial expressions.
- Located right above medulla



Reticular Formation

- Inside the brainstem, between your ears.
- As sensory input travels to the thalamus this net like area is filters some information and sends it to other areas of the brain.
- Involved in arousal, waking up and feeling alert.





Thalamus

- In Forebrain
- Receives sensory information and sends them to appropriate areas of forebrain.
- Like a switchboard. Think sensory input travel en-route to destination.
- Everything but smell.



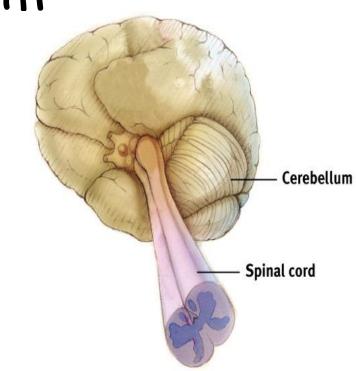
Cerebellum

 Located in the back of our head-means little brain.

 Coordinates muscle movements.

 Like kicking a soccer ball into the goal.



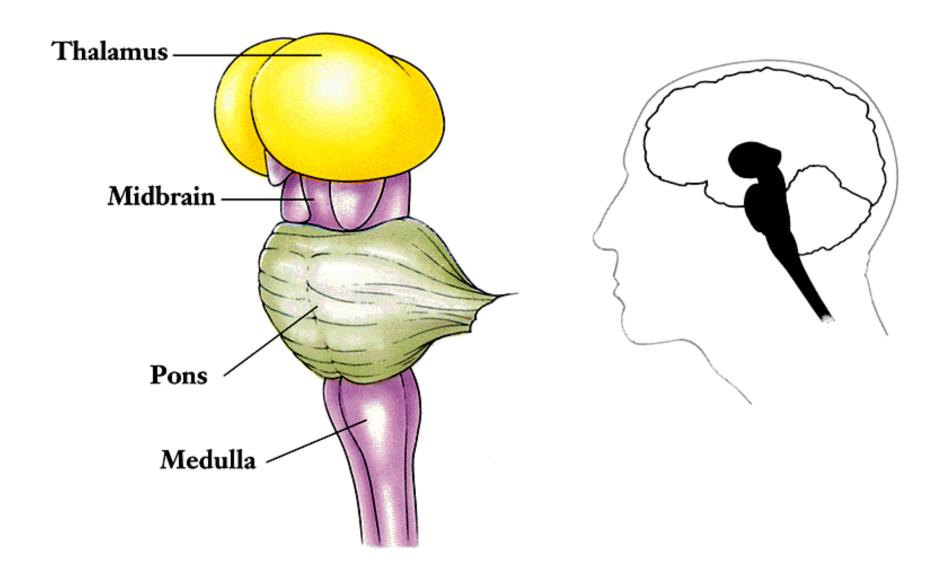


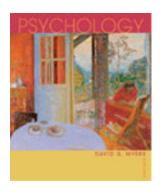


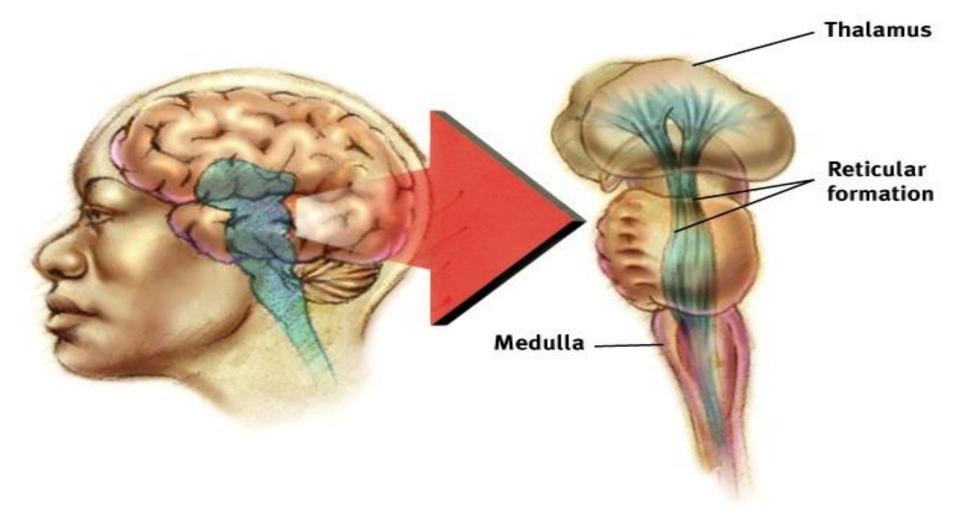
Midbrain



- Coordinates simple movements with sensory information.
- Contains the reticular formation: arousal and ability to focus attention.

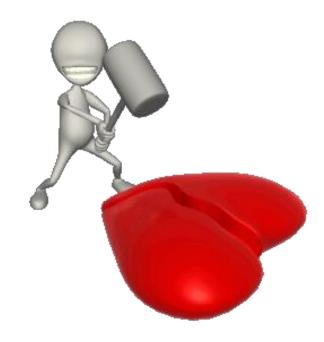




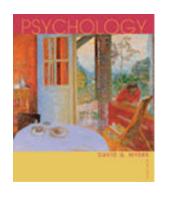


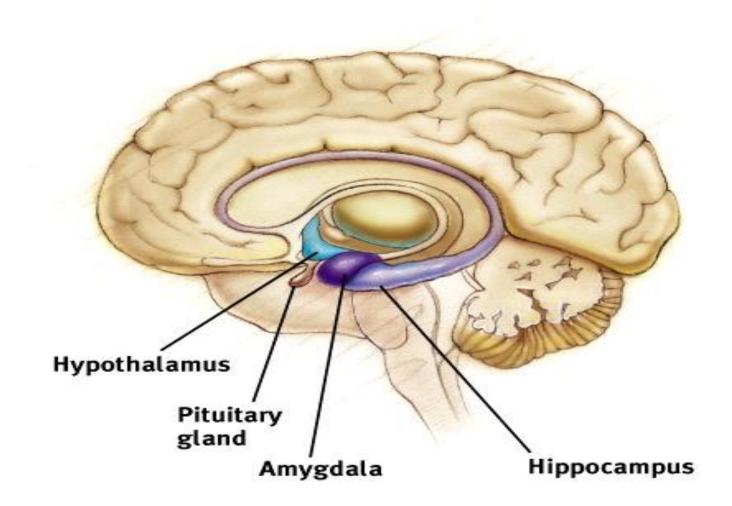
Limbic System

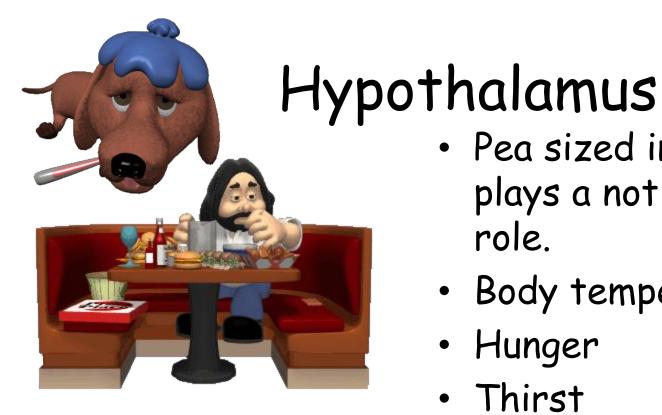
- EMOTIONAL CONTROL CENTER of the brain.
- Made up of Hypothalamus, Amygdala and Hippocampus.



The Limbic System









- · Pea sized in brain, but plays a not so pea sized role.
- Body temperature
- Hunger
- Thirst
- Lateral Hypothalamus damage causes no appetite
- Ventromedial Hypothalamus - damage causes overeating

Hippocampus and Amygdala

- <u>Hippocampus</u> is involved in memory processing.
- Amygdala is vital for our basic emotions. Influence aggression and fear.





Pineal Gland: A small gland that is located near the center of the brain. This gland secretes melatonin, and it may therefore be part of the body's sleep-regulation apparatus.