



Brain Division

Diencephalon

- Epithalamus
 - Integration Area
- Thalamus
 - Relay station of senses
- Hypothalamus
 - Sleep
 - Appetite
- Pineal Gland

Brain Stem

- Midbrain
- Pons
 - Integration
 - Face and Eye nerve source
- Medulla Oblongata
 - Autonervous system

Coverings

- Cranial Meninges
 - outer: dura matter
 - arachnoid matter
 - inner: pia matter
- Divides Brain
 - falx cerebri
 - falx cerebelli
 - tentorium cerebelli

Cerebellum

- Each Hemisphere (2)
 - Connected by Vermis
- Function
 - Movement Coordination and Balance
- Problems
 - Ataxia

Cerebrum

Each Hemisphere (2)

- Frontal Lobe
 - Character
 - Logic
 - Learning
 - Motor Area
 - Broca's Speech Area (Motor aspect)
- Temporal Lobe
 - Intelligence
 - Memory
 - New Learning
 - Storage
 - Old and Recent Events
 - Speech (Cognitive Aspect)
- Parietal Lobe
 - Visual Spatial
 - Music / Art
 - Integrates impulses
- Occipital Lobe
 - Vision Area
- Connected by Corpus Callosum

Outer structure

- Gyrus / Convolutions
 - fold
- Sulcus
 - grooves between folds
- Fissure
 - deepest grooves

General

- Motor
- Sensory
- 20% at rest consumption of glucose and Oxygen
- Areas of Control
 - Blood-Brain Barrier
 - Left
 - Reasoning
 - Numeric and Scientific skills
 - Spoken / Written Language
 - Ability to understand sign language
 - Right
 - Sensory / Motor
 - Art / Music
 - Space and Patter Perception
 - Face / Emotional recognition
 - Emotional aspect of language
 - Odor differentiation