4 LOBES OF THE BRAIN & THEIR FUNCTIONS

PLUS KEY INTERNAL STRUCTURES

1. FRONTAL LOBE

Located at the front of the brain behind the forehead.

FUNCTIONS:

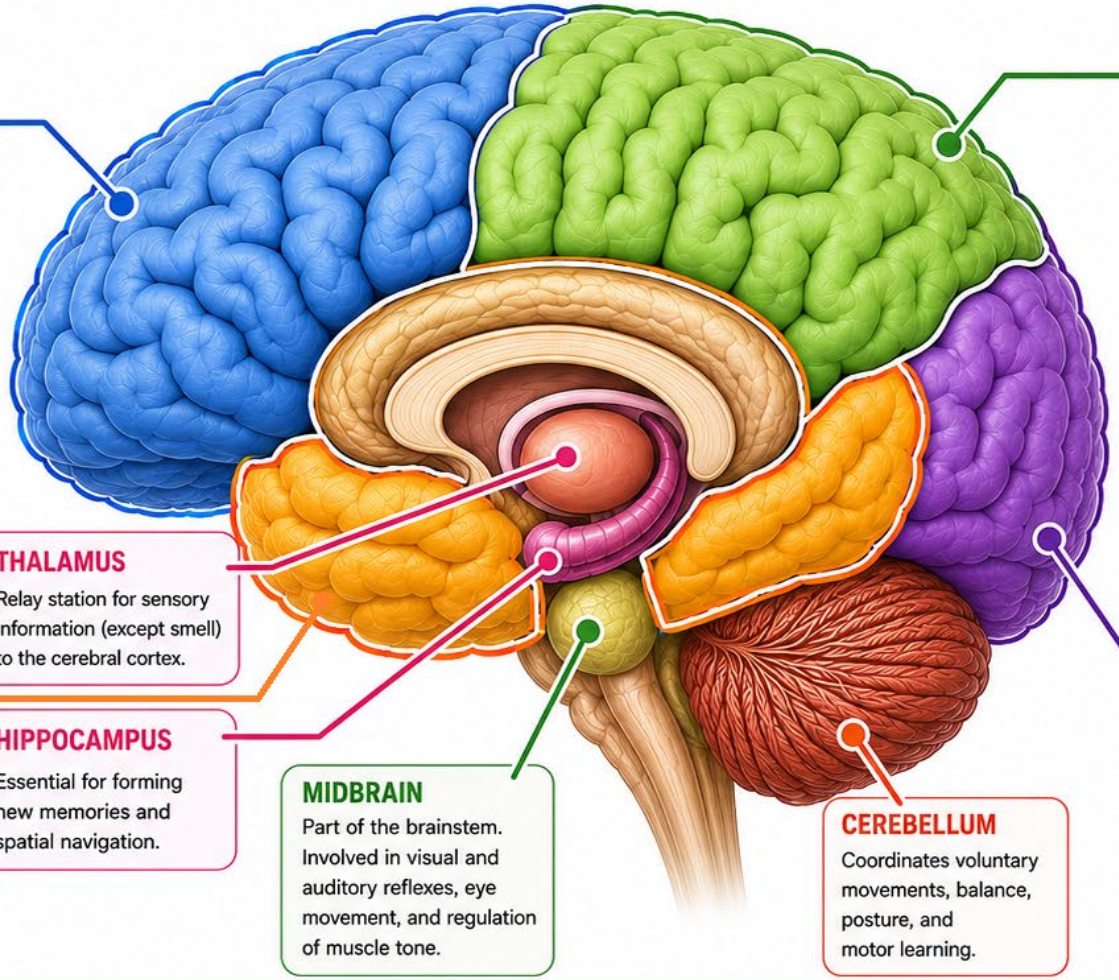
- Executive functions (planning, decision-making, problem solving)
- Personality and behavior
- Motor control
- Speech production
- Attention and concentration

2. PARIETAL LOBE

Located on the top middle part of the brain.

FUNCTIONS:

- Processing of sensory information (touch, pressure, temperature, pain)
- Spatial awareness and orientation
- Perception and integration of sensory input



THALAMUS

Relay station for sensory information (except smell) to the cerebral cortex.

HIPPOCAMPUS

Essential for forming new memories and spatial navigation.

MIDBRAIN

Part of the brainstem. Involved in visual and auditory reflexes, eye movement, and regulation of muscle tone.

CEREBELLUM

Coordinates voluntary movements, balance, posture, and motor learning.

3. TEMPORAL LOBE

Located on the sides of the brain, near the temples.

FUNCTIONS:

- Auditory processing (hearing)
- Language comprehension
- Memory formation and retrieval
- Recognition of objects and faces
- Emotional processing

4. OCCIPITAL LOBE

Located at the back of the brain.

FUNCTIONS:

- Visual processing
- Interpretation of shapes, colors, and movement
- Visual memory

ALL LOBES WORK TOGETHER

The lobes of the brain, along with key internal structures, collaborate seamlessly to allow you to think, feel, move, remember, perceive the world, and interact with others.

- **Frontal Lobe** – Think, Plan, Decide
- **Parietal Lobe** – Sense, Integrate, Orient
- **Temporal Lobe** – Hear, Remember, Understand
- **Occipital Lobe** – See, Visualize, Recognize
- **Internal Structures** – Relay, Remember, Coordinate