

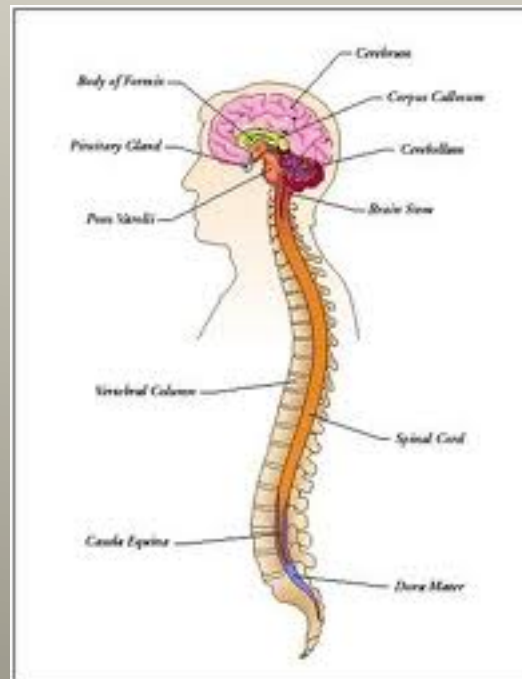
# Chapter 35-3: Divisions of the Nervous System

## Essential Questions:

- What are the functions of the Central Nervous System?
- What are the divisions of the Peripheral Nervous System?



- Central Nervous System (CNS)
  - Function: relays messages, processes information, analyzes information
  - Consists of brain and spinal cord
    - **Meninges**: connective tissue wrapping them
    - **Cerebrospinal fluid**: acts as shock absorber



- Brain

- Cerebrum

- Largest part
    - Voluntary, conscious activities

- Cerebellum

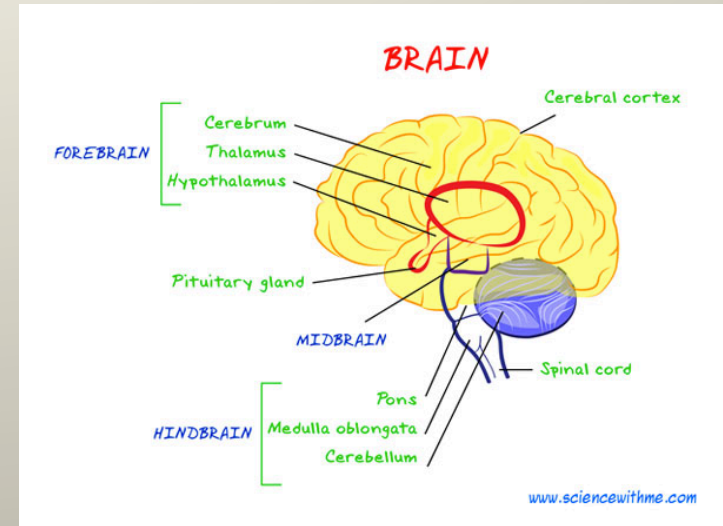
- 2<sup>nd</sup> largest part, back of skull
    - Coordinates muscle action

- Thalamus

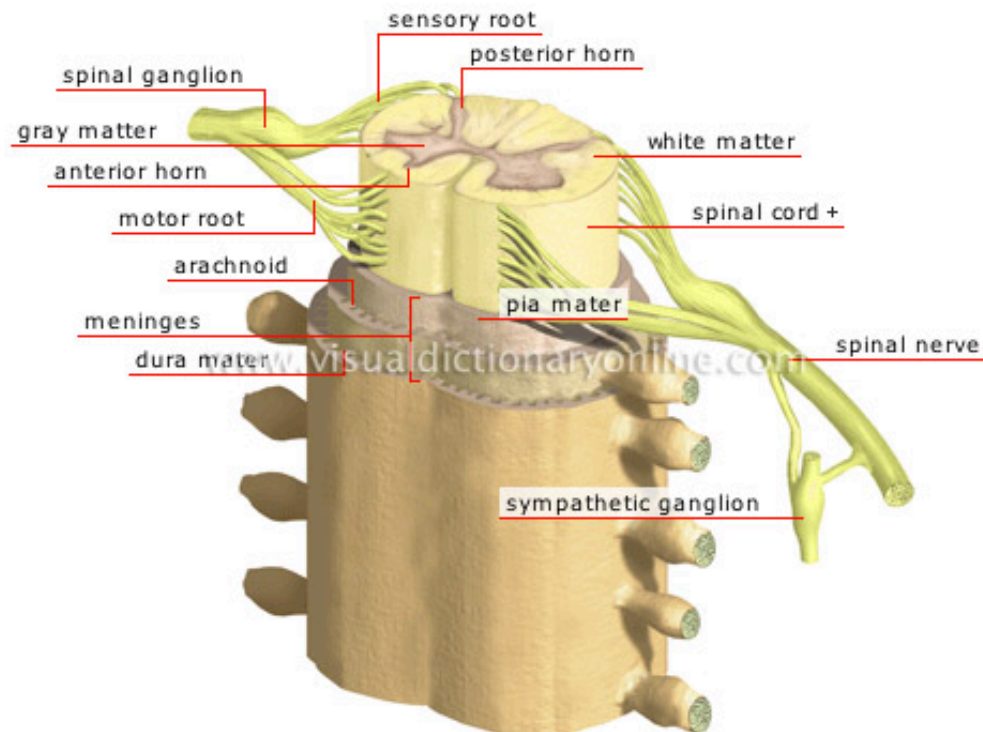
- Gets messages from sense organs

- Hypothalamus

- Control center for info on hunger, thirst, fatigue, anger, body temp



- Spinal cord
  - Link between brain and body
  - Reflex
    - Quick, auto-response
    - Processed directly in spinal cord



- Peripheral nervous system
  - Sensory division
    - Transmits impulses from sense organs to CNS
  - Motor division
    - Transmits impulses from CNS to muscles & glands
  - Somatic division
    - Conscious control
    - Reflexes
  - Autonomic division
    - Involuntary
    - Sympathetic division
      - » Increases function
    - Parasympathetic division
      - » Decreases function

