

- **Nervous system**

- **Central Nervous System**

- Brain controls your thoughts and emotions
- Spinal cord is the path for the message to follow

- **The Brain**

- Cerebrum

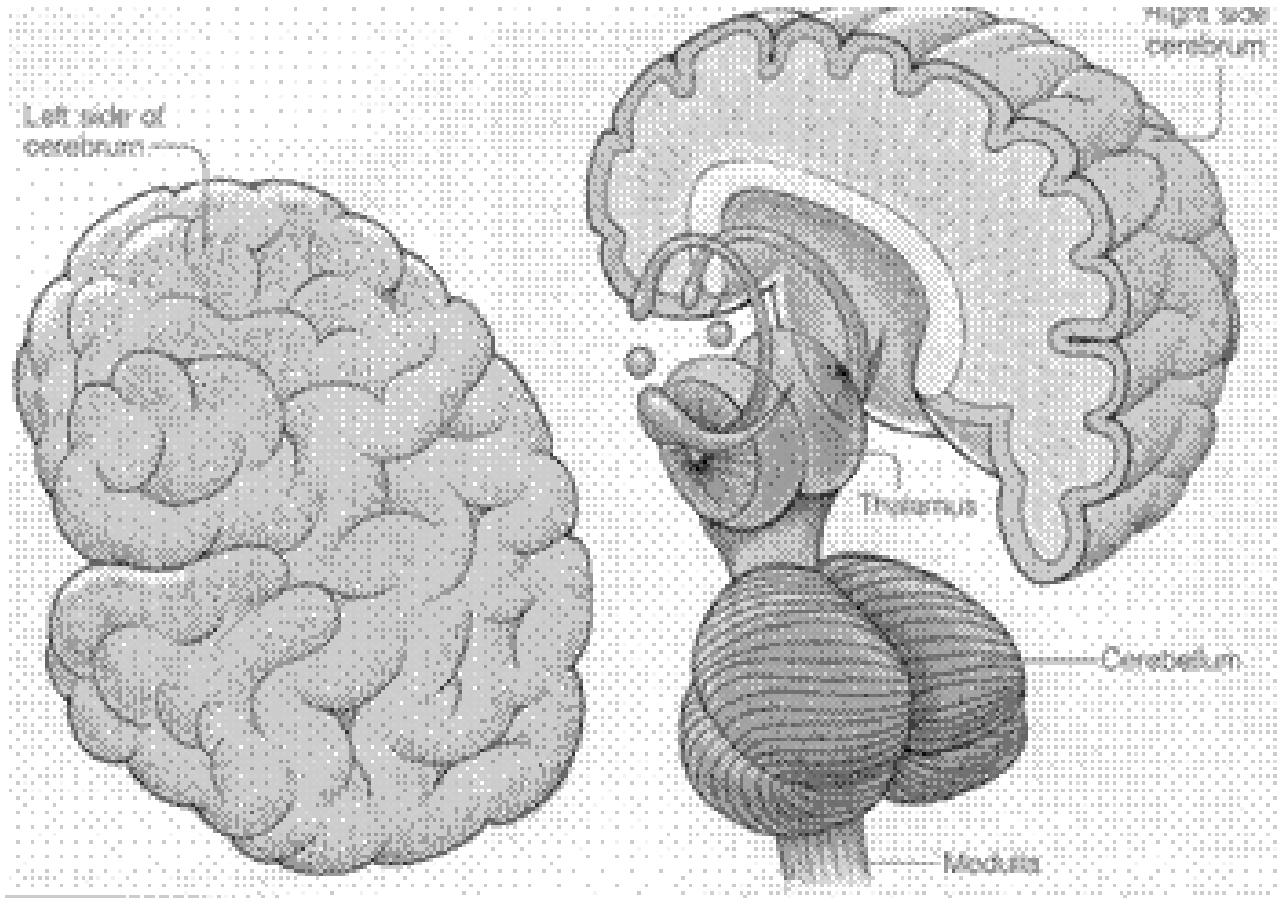
- Controls speaking, thinking, and memory

- Cerebellum

- Controls balance and posture

- Medulla (brain stem)

- The nerves in the brain stem control your heartbeat,



breathing, and blood pressure

- **Peripheral Nervous System – nerves outside of the brain and spinal cord**

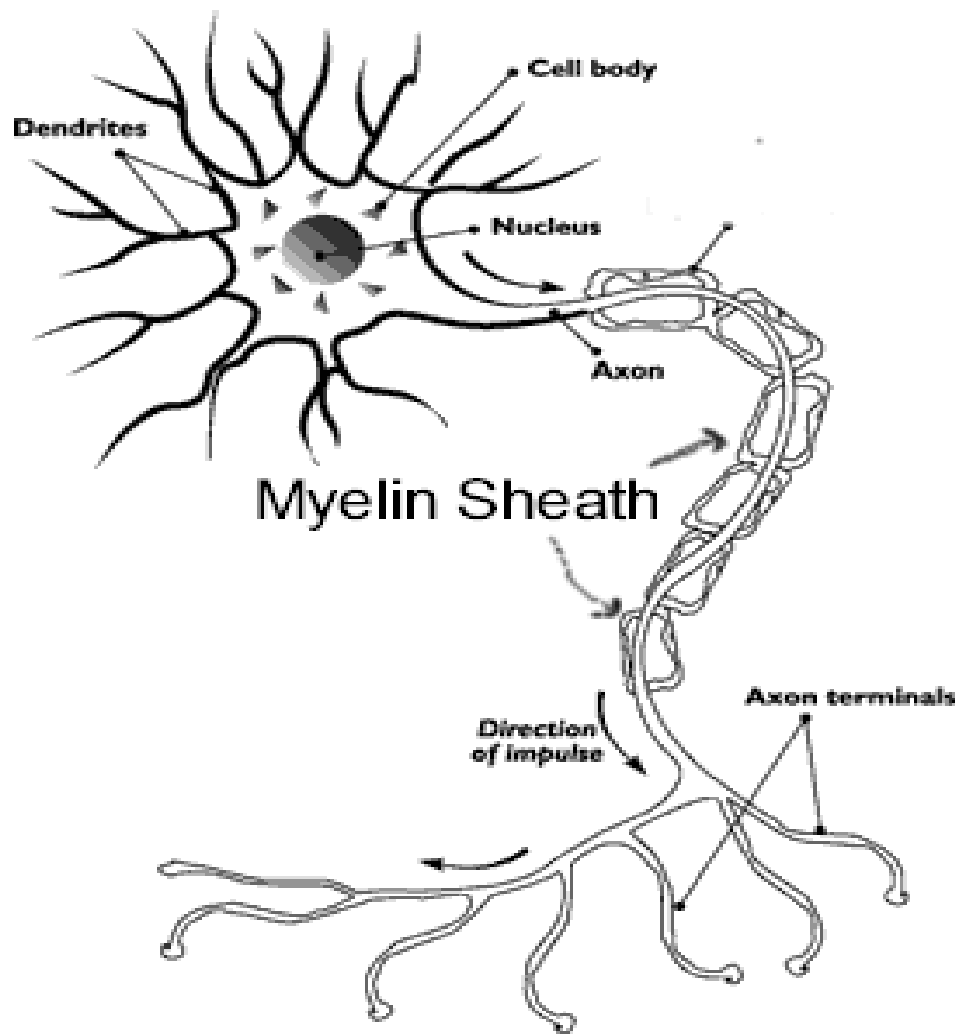
- sensory neurons – five senses
- motor neurons – to muscles

- **Neuron**

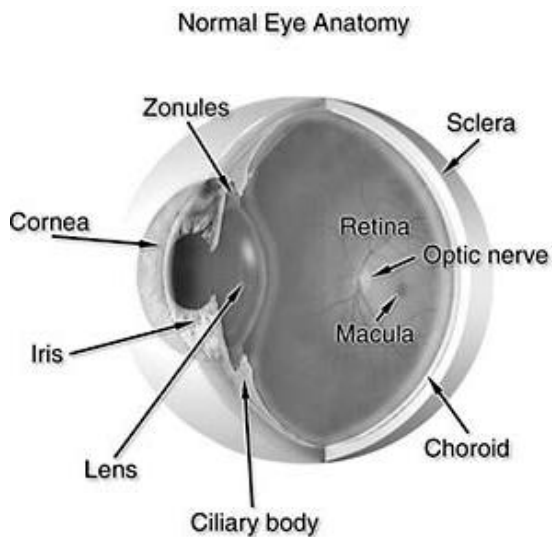
- A cell that carries a nerve impulse
- Nerve Impulse

– Electric message sent through a neuron

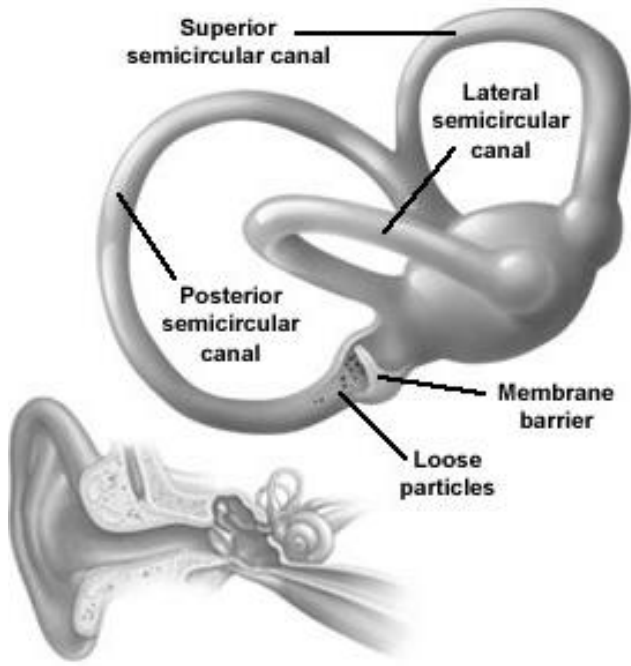
- Dendrites
- Cell Body
- Axon



- Synapses- when the electrical impulse is transferred from one neuron to another



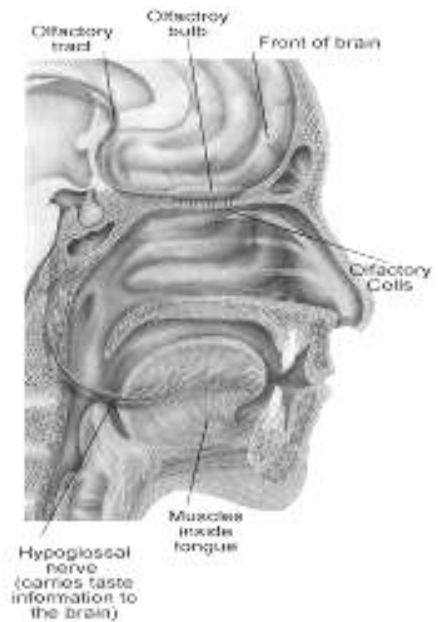
- There are two types of neurons
  - Sensory –receives stimuli
    - The five senses
  - Motor responds to the stimuli
- The sensory neurons
  - The eye



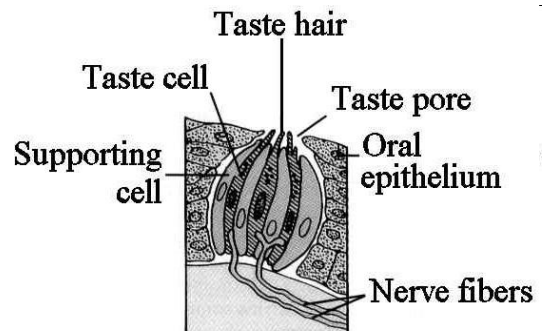
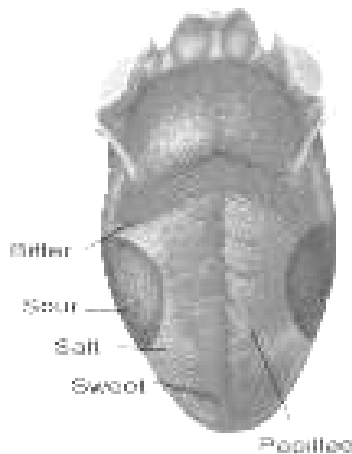
- The ear
- The skin The nerves in the skin allow us to feel **texture**, pressure, heat, cold, and pain.



- Nose is able to smell 80 different kinds of smells.



- Tongue



Seeley, Rod R.; T.D. Stephens, and P. Tate. (1996). *Essentials of Anatomy & Physiology*, 2nd ed. Mosby, NY. pg.240.

Motor neurons- respond to stimuli by making muscles move.

# Automatic Nervous System

- \* The outer nervous system controls the body's activities that you don't think about.

