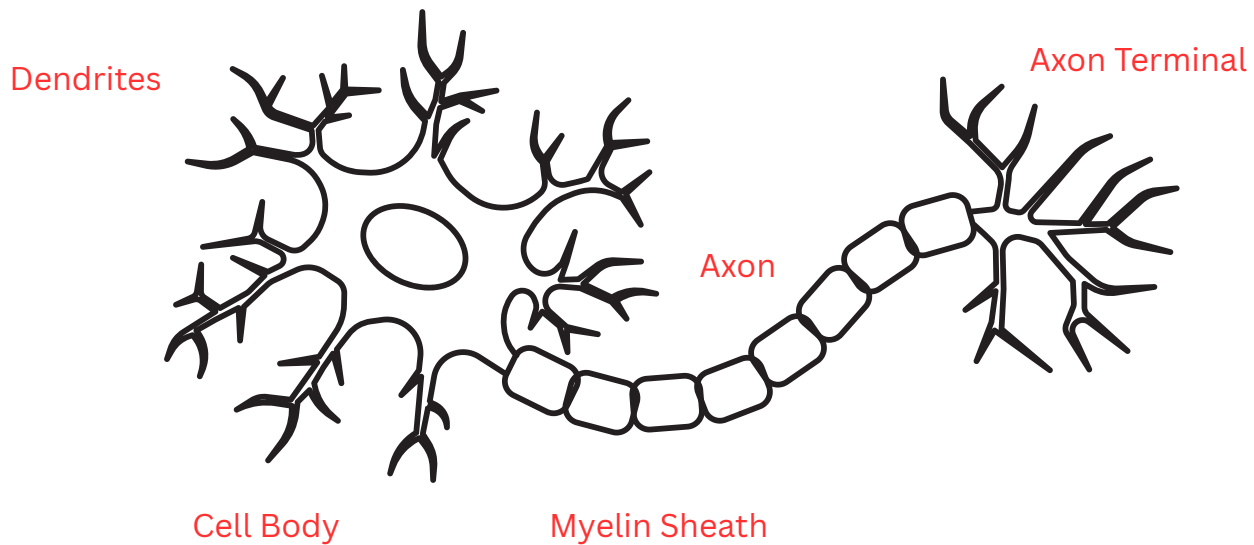


Chapter Three: Neurophysiology

- Label the Neuron



- How does direction information travel through the neuron?
 - Dendrites receives electrical signals, takes signal to cell body, Cell body integrates signal and takes signal to axon, Axon takes signal away from cell body.
- What surrounds the axon and increases the speed of transmission of information?
 - Myelin Sheath which also provides nutrients
- What are the different membrane ion channels and how are the used?
 - Passive: no energy required
 - Active: ATP Energy Required
 - Voltage gated: uses Na/K
 - Chemically: hormones requires key
 - Mechanically gated: Blown open

Chapter Three: Neurophysiology

- Explain the Sodium Potassium pump in detail.
 - Na/K pump is a positively charged pump. Na is extracellular while K is intracellular, this is an inefficient and never equal way to exchange ion, It is 3 sodiums for every 2 potassium
- Draw the Nervous System Chart and their functions.
 - Nervous System
 - Central nervous System
 - Brain
 - Spinal Cord
 - Peripheral Nervous System
 - Motor Neurons
 - Somatic
 - Autonomic
 - Sympathetic
 - Parasympathetic
 - Sensory Neurons

Chapter Three: Neurophysiology

- What is the primary way the Nervous System communicates?
What cells are they?
 - Through Action Potential, only cells with excitable membranes can generate AP,
 - Neurons
 - Muscle Cells
- What is the resting membrane potential?
 - Negative 70 mv
 - Gates are closed while resting
 - This is the charge when nothing is going on
- Draw a Action Potential Graph and label each section, with their functions.