

### **Unit 3 - Cell Structure & Function (pgs 182-211)**

- Summarize the principles of the cell theory.
- Identify the scientists that contributed to the cell theory.
- Compare compound light microscope to electron microscope.
- Differentiate between prokaryotic cell and a eukaryotic cell.
- Compare and contrast plant and animal cell structures.
- Identify and explain the structure and function of a typical eukaryotic cell.
- Summarize how the plasma membrane helps maintain homeostasis for the cell.
- Compare and contrast active and passive transport.
- Identify examples of active and passive transport.
- Differentiate between isotonic, hypotonic, and hypertonic solutions.