Cell Objectives

Define these key terms:

prokaryote eukaryote cell organelle virus nucleus nuclear membrane nucleolus ribosome mitochondria lysosome rough endoplasmic reticulum smooth endoplasmic reticulum cell membrane cytoplasm cytoskeleton golgi body (complex) contractile vacuole food vacuole centrioles chloroplast cell wall

- List the three cell theories stated about cells.
- Describe the contributions of the six scientists that have developed the cell theory.
- Name 2 basic cell types.
- Label an animal and plant cell.
- State one difference between viruses and body cells.
- Distinguish between prokaryotic & eukaryotic cells.
- Describe the function of the nucleus.
- Describe the structures and functions of the major cell organelles.
- State the organelles found only in the plant cell.
- State the organelles found only in the animal cell.
- Explain the difference between a plant vacuole and an animal vacuole.
- Identify the main roles of the cytoskeleton.
- Name two organelles other than the nucleus that can undergo replication or duplication.
- Identify relationships for cell organelles and abstract ideas through creative concepts.
- Describe how two organelles work together to survive and maintain homeostasis.
- Describe the chemical process that occurs in the following organelles: mitochondria, chloroplast, nucleus, nucleolus, ribosome, rough endoplasmic reticulum, and the smooth endoplasmic reticulum.
- Name an organelle and a system in the human body that performs a similar function.