Unit 2- Cell Structure and Function

You will learn why the cell is considered the basic unit of life and the function of each cellular organelle.

**State Standards**:

**Bio.1.1.1**: Summarize the structure and function of organelles in eukaryotic cells and ways these organelles interact with each other to perform the functions of the cell

**Bio.1.1.2**: Compare prokaryotic and eukaryotic cells in terms of their general structures and degree of complexity

**Bio.1.2.3**: Explain how specific cell adaptations help cells survive in particular environments (focus on unicellular organisms)



**You will be able to:**

* Differentiate between a prokaryotic and eukaryotic cell
* List and describe the function of all the organelles and structures in prokaryotic and eukaryotic cells
* Describe the structures unicellular organisms have to maintain homeostasis



**Essential Question(s):**

How does cell structure affect cell function and vice-versa?

**Unit Vocabulary**

1. Prokaryote

1. Eukaryote

1. Nucleus

1. Nuclear Cloud (nucleoid)

1. Cell (plasma) membrane

1. Cell wall
2. Mitochondria

1. Chloroplasts

1. Lysosomes

1. Vacuoles

1. Ribosomes

1. Golgi apparatus

1. Endoplasmic reticulum

1. Cilia

1. Flagellum
2. Centrioles
3. Cytoskeleton
4. Endosymbiotic Theory