IDENTIFY DESIRED RESULTS

What overarching understandings are desired? Performance standards

- Demonstration of an understanding that cells are the basic structure of all living things and that these cells have specialized parts that perform specific functions
- Students will appreciate the cell as a dynamic unit of organization which is characterized by highly specialized organelles and membrane systems which interact to affect metabolism

What are the overarching "essential" questions? Essential Skills

- Differentiates structure and function in plant and animal cells
- Identifies and investigates cellular processes including homeostasis, permeability, energy production, transport of molecules, disposal of wastes, function of cellular parts, and synthesis of new parts
- Compares the structures and functions of viruses and bacteria and their roles in causing diseases and maintaining health

What will students understand as a result of *this* unit?

- Students will understand that the body is made up of cells—real can "see"(microscope activity)
- Students will understand that cells are made up of parts and these have different functions
- Students will understand the contributions of people in development of the cell theory
- Students will understand the 2 major components of the cell theory
- Students will be able to compare and contrast the characteristics of the cells in unicellular and multicellular organisms and Single cell = basic cell
- Students will understand that there is a difference between plan and animal cells
- What controls the cell -> dysfunctions

What "essential" and "unit" questions will focus this unit?

How do cells carry out the basic "processes of life" and what can happen when things go wrong?