Life Science 7 (Copy the following lab activity set up in your science notebook.)

Title: Activity 12 The Characteristics of Cells

Challenge Question: What are living things made of?

Background:

- All living things are made up of cells.
- Cells need to take in nutrients and release waste.
- Cells need energy to sustain life.

Vocabulary:

Term	Definition	Picture
cell		
organism		
cell membrane		
cytoplasm		
organelle		
nucleus		
prokaryote		
eukaryote		

Materials:

Cells and Heredity book

Procedures:

- 1. Read pages 4 11 in Cells and Heredity book.
- 2. Answer questions 1, 2, 3, and 5 13. Write answers in Data/Results section in science notebook activity set up.
- 3. Do Lesson Review on page 13, questions 1 9. Write answers in science notebook set up in Data/Results section.

Data/Results:

(Write answers to book questions here.)

Analysis Questions:

- 1. Describe the main difference between prokaryotic and eukaryotic cells. What type of cell makes up bacteria? What type of cells are plant and animals made of?
- 2. Why is the cell theory important? Explain.
- 3. Create a Venn diagram to organize and compare information about prokaryotic and eukaryotic cells.
- 4. Choose an organism that you are familiar with, and explain how the three parts of the cell theory relate to that organism.

Conclusion : What are living things made of? Use data, evidence and examples from the reading to support your answer.		