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

Title: Activity 12 Levels of Cellular Organization

Challenge Question: How are living things organized?

Background:

- Cells are the basic unit of life; cells perform all of the processes necessary for life.
- Some organisms are made up of just one cell, while other organisms, such as humans, are made up of many cells.

How are multicellular organisms different from unicellular organisms?			

Vocabulary:

Term	Definition	Picture or Example
organism		
tissue		
organ		
organ system		
structure		
function		

Materials:

Cells and Heredity book

Procedures:

- 1. Read pages 38 47 in Cells and Heredity book.
- 2. Answer questions 1-3 and 5-19. Write answers in Data/Results section in science notebook activity set up.

3. Do Lesson Review on page 49 questions 1 – 8 . Write answers in science notebook set up in Data/Results section.
Data/Results: (Write answers to book questions here.)
Analysis Questions:
1. How do you think the nervous, epithelial, connective, and muscle tissues in your stomach work together in the process of digestion? (<i>Hint: Think about the functions of the four types of tissues.</i>)
2. What are the different levels of cellular organization in a living thing?
3. How are cells, tissues, and organs organized into an organ system? (Hint: Think about what makes up a tissue, an organ, and an organ system.)
4. Think about the functions of a red blood cell and a nerve cell. How do the structures of these specialized cells relate to their functions?
5. What are some ways body systems work together?
Conclusion : How are living things organized? Use data, evidence and examples from the reading to support your answer.