Life Science 7

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

Title: Activity 8 Photosynthesis and Cellular Respiration

Challenge Question: How do cells get and use energy?

Background:

- All organisms need energy. The cells of organisms use energy to carry out life activities.
- Photosynthesis is the process in which plants and other organisms make their own food using light energy from the sun.
- Cellular respiration is the process in which cells use molecular oxygen to break down food and release stored energy.

Vocabulary:

Term	Definition	Picture or Example
photosynthesis		
cellular respiration		
chlorophyll		

Materials:

Cells and Heredity book

Procedures:

- 1. Read pages 66 75 in *Cells and Heredity* book.
- 2. Do questions 1, 2, and 5 15. Write answers in Data/Results section in science notebook activity set up.
- 3. Do Lesson Review on page 77 questions 1 9. Write answers in science notebook set up in Data/Results section.

Data/Results:

(Write answers to book questions here.)

Ana	lvsis	Qu	estion:
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1. Trace the path of carbon and oxygen atoms through the process of photosynthesis. For each element, show how it changes form but is still conserved. 2. How is chloroplast like a solar panel on a house? Explain. 3. Write the general equations for the processes of cellular respiration and photosynthesis. What do you notice about these equations? Explain. Conclusion: How do cells get and use energy? Use data, evidence and examples from the reading to support your answer.