Life Science 7

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

Title: Activity 4 Population Dynamics

Challenge Question: What determines a population's size?

Background:
Factors that affect the population size and health of living things in an ecosystem are called ***limiting factors.***

Vocabulary:

Term	Definition	Picture or Example
carrying capacity		
limiting factor		
competition		
cooperation		

Materials:
"Ecology and the Environment" book

Procedures:
1. Read pages 30 – 39 in the *Ecology and the Environment* book. Answer questions 5 – 9; 11, 12, 16 – 18.
2. Do Lesson Review on page 41; questions 1 – 11. Complete Vocabulary.
3. Answer Analysis Questions.

Data/Results:
(Write answers to book questions here.)

Analysis Questions:

1. Do you think an arctic environment or a tropical environment can support a larger population of butterflies? Why?

2.Would the immigration or emigration of frogs cause the frog population to increase? Why?

3. What abiotic and biotic factors might affect the growth of a plant?

4. Give three examples of limiting factors.

5. What is carrying capacity? What can affect carrying capacity?