

Name

Date

**Ecology Review Sheet**

**Ch. 3-5**

**Chapter 3**

**3-2 pg. 69-72**

1. What provides the main source of energy for life on Earth?

2. What are the reactants for photosynthesis? The products?

**3-3 pg. 73-78**

3. How does energy move within an ecosystem?

4. What is the difference between a food web and a food chain? What direction do the arrows point?

5. How much energy is passed on from 1 trophic level to the next?

**3-4 pg. 79-86**

6. How does matter move within a system?

7. List the 3 nutrient cycles and why each is important to living organisms.

8. What 2 biological processes drive the carbon cycle?
9. What type of organisms drive the nitrogen cycle?
10. Can producers use the nitrogen gas from the atmosphere directly?

**Chapter 4-2 pg. 99-104**

11. When does competition occur?
12. What are the 3 types of symbiotic relationships? Provide an example for each.

**Chapter 5**

**5-1 pg. 130-135**

13. List the 4 factors that can affect population size.
14. What occurs during exponential growth? Draw the curve below.



15. What conditions cause exponential growth to occur?

16. What occurs during logistic growth? Draw the curve below. Label carrying capacity.



17. What causes a populations' growth to slow down?

**5-2 pg. 137-141**

18. What is a limiting factor?

19. List the 2 types of limiting factors. Provide 3 examples for each.