

Name \_\_\_\_\_ Period \_\_\_\_\_

### Ecology Review Guide

1. Energy \_\_\_\_\_ and matter \_\_\_\_\_.
2. Define the following terms:
  - a. Food Chain-
  - b. Food Web-
  - c. Energy Pyramid-
  - d. Numbers Pyramid-
  - e. Biomass Pyramid-
3. What are the 4 types of energy in a food chain? Define them.
  
4. How much energy is passed on in a food chain? How much energy is lost? Why?
  
5. Describe how animals use or expend their energy and how that affects what they eat (how they gain their energy).
  
6. Draw the nitrogen cycle and the carbon cycle (include the different forms of these elements and terms such as nitrogen fixation, denitrification, etc.). Describe three differences between the two cycles.

7. Draw the water cycle (include terms such as precipitation, condensation, evaporation, transpiration, run-off, root uptake and seepage).

8. How have humans affected all three of the above cycles (nitrogen, carbon and water)?

9. Define the following terms:

a. mutualism-

b. commensalism-

c. parasitism-

10. What is a limiting factor? Give three examples.

11. What is the difference between abiotic and biotic factors?

12. What is the difference between qualitative and quantitative data?