**Unit 1 Study Guide**

1. Describe the flow of matter and energy in decomposers.
2. What is photosynthesis?
3. What materials are needed in order to perform photosynthesis? What is produced by photosynthesis?
4. How are plants able to release the energy from photosynthesis?
5. Draw one food chain.
6. Decomposers cycle matter and energy between what?
7. What is an energy pyramid?
8. What are the roles of producers in their environment? Give an example of a producer.
9. What are the roles of consumers in their environment? Give an example of a consumer.
10. What is cellular respiration?
11. What is needed and what is produced by cellular respiration?
12. What is the carbon cycle? How does carbon move in an environment?
13. Draw a food web.
14. Given the brain, nerve cells, a human, molecules, and atoms; list these from most basic to the most complex.
15. How do plants and animals get what they need for cellular respiration?
16. How do plants and animals release energy using cellular respiration?
17. What is the role of photosynthesis in the flow of energy between plants and consumers?
18. What is the role of photosynthesis in the cycling of matter between plants and consumers?
19. What happens to matter after an organism is broken down?
20. What happens to food after an organism eats it?
21. What would the loss of trees do to a habitat?
22. What is the role of an organism in cycling matter and energy in their habitat?