**Unit Summary Questions**

1. Describe each of the characteristics common to all living organisms.
2. Explain how a food web is organized and how energy flows through the food web.
3. Describe the relative amount of energy in each trophic level and explain how and why it changes from trophic level to trophic level.
4. Discus the interaction of photosynthesis and respiration and the role each plays in controlling the flow of energy through living systems.
5. Explain how and why an invasive species impacts an ecosystem.
6. Discuss the importance of biodiversity in maintaining ecosystem health.
7. Describe the steps and processes involved in the carbon cycle and water cycle. Identify the causes and effects of human impacts on each of these cycles.
8. Describe the relationship between predator and prey and compare it to the relationship between producer and consumer. Include and describe a graph that illustrates the predator-prey relationship.
9. Describe the nature of competition. Include and describe a graph that illustrates competition.
10. Compare and contrast the types of symbiotic relationships.