

Chapter 3 The Biosphere

Section Review 3-3

Reviewing Key Concepts

Short Answer *On the lines provided, answer the following questions.*

1. How are the flow of matter and the flow of energy through ecosystems different?

2. Describe how nutrients are passed between organisms and the environment.

Reviewing Key Skills

3. **Applying Concepts** What role does the land have in the water cycle?

4. **Inferring** What are the main sources of carbon dioxide in the atmosphere?

5. **Predicting** What would happen if the bacteria that cause denitrification were removed from the nitrogen cycle?

6. **Inferring** What is the importance of nitrogen fixation?

7. **Applying Concepts** How are bacteria important to the nitrogen cycle?

8. **Comparing and Contrasting** How does organic phosphate move through a food web?

9. **Comparing and Contrasting** What is one way that the phosphorus cycle differs from the carbon and nitrogen cycles?

10. **Comparing and Contrasting** Compare the typical limiting nutrient in saltwater and freshwater environments.
