

Chapter 4 Ecosystems and Communities

Section Review 4-1

Reviewing Key Concepts

Completion *On the lines provided, complete the following sentences.*

1. The natural situation in which heat is retained by the atmosphere is the _____.
2. _____ zones are located in the areas around Earth's poles.
3. _____ zones have climates that range from hot to cold.
4. The zone that receives direct year-round sunlight is the _____.

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

5. What gases trap heat energy in Earth's atmosphere?

6. How do greenhouse gases maintain Earth's temperature range?

7. What causes the three main climate zones on Earth?

Reviewing Key Skills

8. **Applying Concepts** Describe five factors that affect climate.

9. **Applying Concepts** In the past century, the concentration of carbon dioxide in the atmosphere has been increasing steadily. Describe an effect this might have on Earth's climate.

10. **Inferring** On a particular day at the beach, air is moving downward over the ocean and upward over the sand. What can you infer about the relative temperatures of the air over the sea and the air over the sand?

Chapter 4 Ecosystems and Communities

Section Review 4-2

Reviewing Key Concepts

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

1. Name and describe the two factors that determine the survival and growth of organisms in an ecosystem.

2. Name three types of community interactions that affect an ecosystem.

3. In which type of community relationship does one member of the association benefit while the other is neither helped nor harmed? Give an example.

4. What are the two kinds of disturbances that change ecosystems?

5. Describe the process of succession in an ecosystem.

Reviewing Key Skills

6. **Applying Concepts** How is a niche related to abiotic and biotic factors?

7. **Comparing and Contrasting** Compare the three types of symbiosis—mutualism, commensalism, and parasitism—in terms of the relationships that exist within each type.

8. **Applying Concepts** If two organisms occupy the same niche in the same habitat at the same time, what must be true about them?

9. **Comparing and Contrasting** Compare the two types of succession and give an example of each.
