

**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?  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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