

## Section 6–4 Charting a Course for the Future (pages 157–160)



**TEKS FOCUS:** 1B Use, conservation, disposal, and recycling of materials; 3C Impact of research on the environment

*This section describes two types of global change that are of concern to biologists.*

### Ozone Depletion (pages 157–158)

1. What is ozone? \_\_\_\_\_  
\_\_\_\_\_
2. Where is ozone concentrated in the atmosphere? \_\_\_\_\_  
\_\_\_\_\_
3. Over what continent has a “hole” in the ozone layer been growing larger and lasting longer over the last 20 years? \_\_\_\_\_
4. What is causing the problem of ozone depletion? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Global Climate Change (page 159)

5. What is global warming? \_\_\_\_\_  
\_\_\_\_\_
6. What is the most widely accepted hypothesis about the cause of global warming?  
\_\_\_\_\_  
\_\_\_\_\_
7. Circle the letter of each sentence that is true about global warming.
  - a. The burning of fossil fuels pulls carbon dioxide from the atmosphere.
  - b. Some scientists think it is part of natural variations in climate.
  - c. The 1990s was the warmest decade ever recorded.
  - d. Cutting and burning forests adds carbon dioxide to the atmosphere.
8. If global warming continues at the current rate, how might sea level be affected?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## The Value of a Healthy Biosphere (page 160)

9. What goods and services do a healthy biosphere provide to us? \_\_\_\_\_

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10. What is the first step in charting a course that will improve living conditions without harming the environment? \_\_\_\_\_

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### WordWise

Complete the sentences using one of the scrambled terms below.

oouertlcnm      diioeytsrvb      lblgao mwgaira      fortaestnoide  
eernwbla eecruosr

1. The loss of forests is \_\_\_\_\_.
2. The increase in the average temperature of the biosphere is \_\_\_\_\_.
3. A resource that can regenerate and therefore is replaceable is a(an) \_\_\_\_\_.
4. The agricultural method in which large fields are planted with a single crop year after year is \_\_\_\_\_.
5. The sum total of the genetically based variety of all organisms of the biosphere is \_\_\_\_\_.