

## Section 6–3 Biodiversity (pages 150–156)



**TEKS FOCUS:** 12D Long-term survival of species dependent on limited resource base;  
**TEKS SUPPORT:** 9D Flow of matter and energy; 12E Interactions in an ecosystem

*This section describes the current threats to biodiversity. It also explains the goal of conservation biology.*

### The Value of Biodiversity (page 150)

1. What is biodiversity? \_\_\_\_\_  
\_\_\_\_\_
2. Complete the table about diversity.

#### DIVERSITY IN THE BIOSPHERE

Type of Diversity	Definition
Ecosystem diversity	
Species diversity	
Genetic diversity	

3. Why is biodiversity one of Earth’s greatest natural resources? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Threats to Biodiversity (page 151)

4. What are four ways that human activity can reduce biodiversity?
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
  - d. \_\_\_\_\_
5. When does extinction occur? \_\_\_\_\_  
\_\_\_\_\_

- 6. A species whose population size is declining in a way that places it in danger of extinction is called a(an) \_\_\_\_\_.
- 7. Why does a declining population make a species more vulnerable to extinction?

\_\_\_\_\_  
\_\_\_\_\_

**Habitat Alteration** (page 151)

- 8. The process of splitting a habitat into small pieces is called \_\_\_\_\_.
- 9. What is the relationship between biological “island” size and the number of species that can live there? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Demand for Wildlife Products** (page 151)

- 10. Why are species hunted? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**Pollution** (page 152)

- 11. What is DDT? \_\_\_\_\_
- 12. What two properties of DDT make it hazardous over the long term? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

- 13. What is biological magnification? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**Introduced Species** (page 153)

- 14. Plants and animals that have migrated to places where they are not native are called \_\_\_\_\_.
- 15. Why do invasive species reproduce rapidly and increase their populations?

\_\_\_\_\_  
\_\_\_\_\_

## Conserving Biodiversity (pages 154–156)

16. What is conservation? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
17. What is the purpose of conservation biology? \_\_\_\_\_  
\_\_\_\_\_
18. What does protecting an ecosystem ensure? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
19. What are some of the challenges that conservationists face? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Reading Skill Practice

Writing a summary can help you remember the information you have read. When you write a summary, write only the important points. Write a summary of the information in Section 6–3. Your summary should be shorter than the text on which it is based.