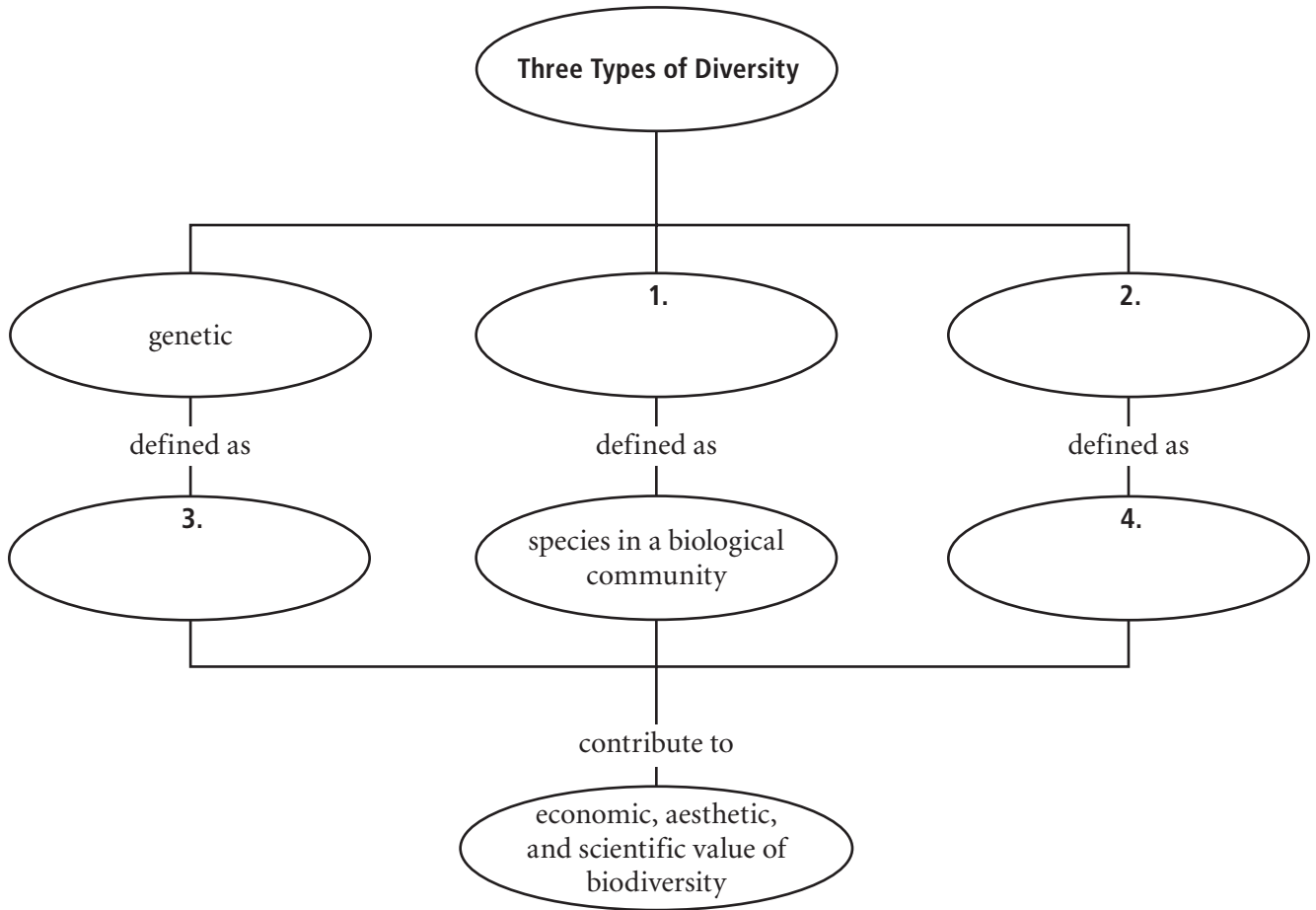


# Study Guide

## CHAPTER 5 Section 1: Biodiversity

In your textbook, read about biodiversity.

Complete the graphic organizer. These terms may be used more than once: biodiversity, ecosystem, species, variety of ecosystems present, variety of genes in a population.



Use each of the terms below only once to complete the passage.

**biodiversity**  
**medicines**

**drinking water**  
**nutrients**

**food crops**  
**species**

**genes**

Maintaining (5) \_\_\_\_\_ is important for many reasons. Humans need to preserve the specific (6) \_\_\_\_\_ they use directly. Species that are used indirectly are valuable because they are a source of (7) \_\_\_\_\_ that might be needed in the future, which is important for (8) \_\_\_\_\_. In addition, organisms that are not yet identified might provide (9) \_\_\_\_\_. The indirect benefits of a healthy biosphere include cycling of (10) \_\_\_\_\_ and provision of safe (11) \_\_\_\_\_.

**CHAPTER 5**  
**Section 2: Threats to Biodiversity**

*Study Guide*

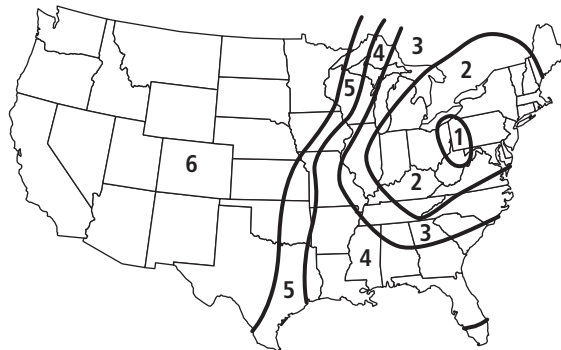
In your textbook, read about threats to biodiversity.

For each statement below, write true or false.

- \_\_\_\_\_ 1. The current rate of extinction is decreasing significantly.
- \_\_\_\_\_ 2. Island species are especially vulnerable to extinction.
- \_\_\_\_\_ 3. Only a few factors threaten biodiversity.
- \_\_\_\_\_ 4. The primary cause of extinction is loss of habitat.
- \_\_\_\_\_ 5. Introduced species make biodiversity stronger and more stable.

In your textbook, read about acid precipitation.

Refer to the map of the United States and the key. Respond to each statement.



1 = Most affected by acid precipitation  
 6 = Least affected by acid precipitation

6. **Identify** the area of the United States that receives the most acid precipitation.

\_\_\_\_\_

7. **Locate** your state on the map. **Determine** how affected your state is by acid precipitation.

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

8. **Define** *acid precipitation*. **Explain** the problems it causes for the environment.

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

**Study Guide, Section 2: Threats to Biodiversity** continued

In your textbook, read about factors that threaten biodiversity.

Complete the table by filling in the missing information.

Threat to Biodiversity	Description	Example of a Threatened Species or Organism
Overexploitation	9.	bison
Destruction of habitat	10.	hyacinth macaw
Disruption of habitat	11.	12.
Fragmentation of habitat	13.	Florida panther
Pollution of habitat	14.	15.
Acid precipitation	16.	Blue Ridge goldenrod
Eutrophication	17.	water pennywort
Introduced species	18.	Guam rail

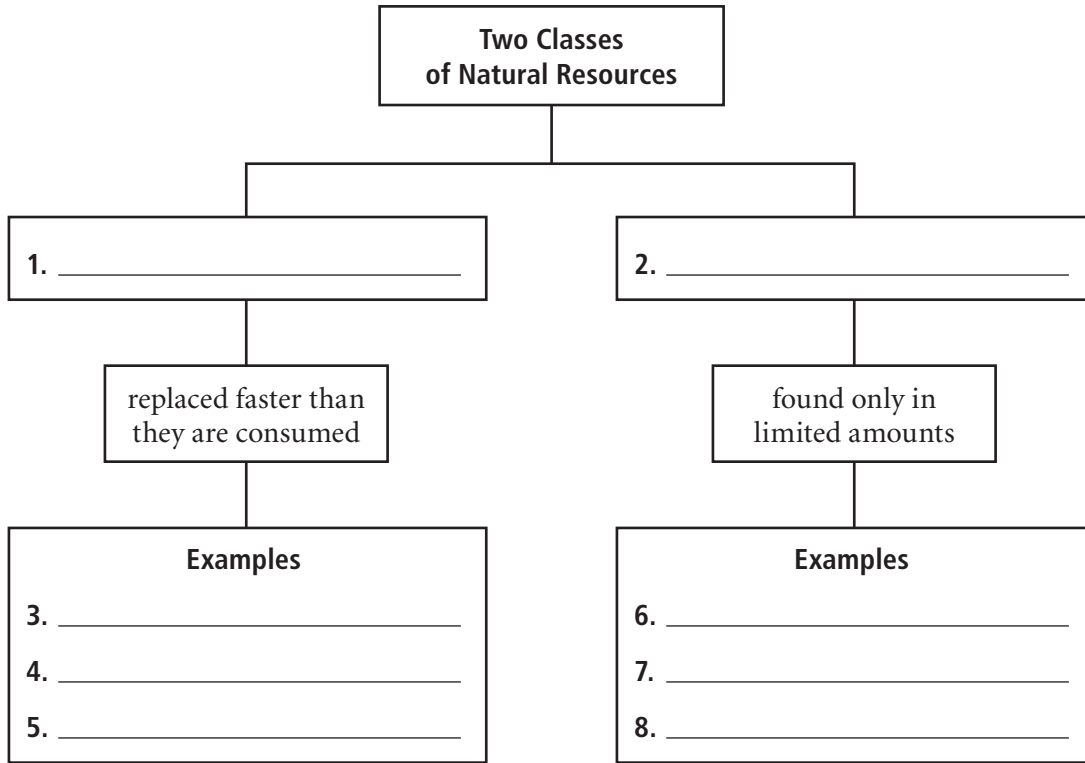
CHAPTER 5

*Study Guide*

**Section 3: Conserving Biodiversity**

In your textbook, read about natural resources.

Complete the graphic organizer. These terms may be used more than once: animals, fossil fuels, mineral deposits, nonrenewable resources, plants, radioactive uranium, renewable resources, solar energy.



In your textbook, read about restoring ecosystems.

Respond to the following statement.

9. Define *bioremediation* and *bioaugmentation*. Give one example of each.

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