

## Chapter 7

Use with Text Pages 200-203

## REINFORCEMENT

## ● Identifying Organisms

Answer the following questions using information from the textbook.

1. Why don't scientists use common names to identify organisms? \_\_\_\_\_

\_\_\_\_\_

2. Why are scientific names important? Give four functions for scientific names.

a. \_\_\_\_\_

b. \_\_\_\_\_

c. \_\_\_\_\_

d. \_\_\_\_\_

3. The system of \_\_\_\_\_ gives each organism a unique scientific name.

Use the key to species of birch trees below to answer the questions that follow.

1a. bark dark, reddish-brown, yellowish-brown to black... go to 2

1b. bark creamy white, pinkish, or gray...go to 6

2a. bark and twigs with wintergreen fragrance when cut...go to 3

2b. bark and twigs without a fragrance when cut...go to 5

3a. leaves with 8-12 pairs of veins...go to 4

3b. leaves with 4-6 pairs of veins...*Betula uber*

4a. bark dark red to almost black; scales of cones smooth, 6-12 mm long... *Betula lenta*

4b. bark reddish-brown, peeling in loose, ragged sheets, scales of cone hairy, 5-7 mm... *Betula alleghaniensis*

5a. branchlets covered near tip with many small glands, Rocky Mountains or Western Canada... *Betula occidentalis*

5b. branchlets smooth, shiny, no glands present, eastern U.S....*Betula nigra*

6a. leaves hairy on lower surface...go to 7

6b. leaves smooth, hairless underside...go to 8

7a. leaves 5-13 cm long, pointed tip... *Betula papyrifera*

7b. leaves 3-7 cm long, pointed tip, winter buds shiny...*Betula pendula*

8a. bark dull gray to grayish-white, smooth and not peeling...*Betula populifolia*

8b. bark white to pinkish-white, peeling... go to 9

9a. leaves 6-10 cm, round base...*Betula caerulea*

9b. leaves 3-5 cm, squared base...*Betula pubescens*.

1. Are the leaves of *Betula populifolia* hairy or smooth on the lower surface? \_\_\_\_\_

2. How many pairs of veins are on the leaves of *Betula lenta*? \_\_\_\_\_

3. What is a characteristic of the bark of *Betula alleghaniensis*? \_\_\_\_\_

4. When a twig of *Betula nigra* is broken, does it give off a wintergreen fragrance? \_\_\_\_\_