

Skills Worksheet

Section Review

Acids and Bases**USING KEY TERMS**

1. In your own words, write a definition for each of the following terms: *acid*, *base*, and *indicator*.

UNDERSTANDING KEY IDEAS

- _____ 2. A base is a substance that
- feels slippery.
 - tastes sour.
 - reacts with metals to produce hydrogen gas.
 - turns blue litmus paper red.
- _____ 3. Acids are important in
- making antacids.
 - preparing detergents.
 - keeping algae out of swimming pools.
 - manufacturing cement.
4. What happens to red litmus paper when it touches a base?

MATH SKILLS

5. A cake recipe calls for 472 mL of milk. You don't have a metric measuring cup at home, so you need to convert milliliters to cups. You know that 1 L equals 1.06 quarts and that there are 4 cups in 1 quart. How many cups of milk will you need to use? Show your work below.

Section Review *continued*

CRITICAL THINKING

6. **Making Comparisons** Compare the properties of acids and bases.

7. **Applying Concepts** Why would it be useful for a gardener or a vegetable farmer to use litmus paper to test soil samples?

8. **Analyzing Processes** Suppose that your teacher gives you a solution of an unknown chemical. The chemical is either an acid or a base. You know that touching or tasting acids and bases is not safe. What two tests could you perform on the chemical to determine whether it is an acid or a base? What results would help you decide if the chemical was an acid or a base?
