

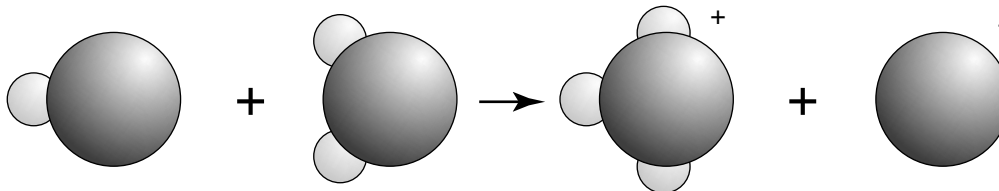
Chapter 3

Use with Section 3

REINFORCEMENT

● Acids and Bases

Use the diagram below to answer questions 1–5.



Look at the left side of the diagram.

1. What substance is represented by the three-atom molecule? _____

Look at the right side of the diagram.

2. Explain what has happened to the molecule of HCl. _____

3. Identify the four-atom ion formed from the hydrogen ion from the molecule of HCl and the three-atom molecule. _____

4. What kind of solution—acidic or basic—has been produced? _____

5. Will this solution conduct electricity? Why or why not? _____

Complete the following. Write your answers on the lines provided.

6. List three properties of acidic solutions. _____
7. List three properties of basic solutions. _____
8. Which ion increases in concentration when a strong acid is added to water? _____
9. Which ion increases in concentration when a strong base is added to water? _____
10. How are the relative strengths of acids and bases compared? _____
11. Name the process that occurs when you drop an antacid tablet into a glass of lemonade. _____