Name _____ Class_____Date_____

Skills Worksheet

# Section Review

## Behavior of Gases

### USING KEY TERMS

1. Use each of the following terms in the same sentence: *temperature, pressure, volume,* and *Charles's law*.

_____

_____

_____

_____

### UNDERSTANDING KEY IDEAS

_____ 2. Boyle's law describes the relationship between
   a. volume and pressure.
   b. temperature and pressure.
   c. temperature and volume.
   d. All of the above

3. What are the effects of a warm temperature on gas particles?

_____

_____

_____

_____

### MATH SKILLS

4 You have 3 L of gas at a certain temperature and pressure. What would the volume of the gas be if the temperature doubled and the pressure stayed the same? Show your work below.

## CRITICAL THINKING

5. **Applying Concepts** What happens to the volume of a balloon that is taken outside on a cold winter day? Explain.

_____

_____

_____

_____

6. **Making Inferences** When scientists record a gas's volume, they also record its temperature and pressure. Why?

_____

_____

_____

_____

7. **Analyzing Ideas** What happens to the pressure of a gas if the volume of gas is tripled at a constant temperature?

_____

_____

_____

_____