

Gas Behavior Study Guide

(Chapter 3, section 3)

Name _____

Period _____

1. What three measurements are helpful to know when working with a gas?

2. What is pressure? What are the metric units of pressure? What is the equation for calculating pressure?

3. What is the relationship between the pressure and the volume of a gas? What is this relationship called? Explain why this happens.

4. Fill in the following:

If pressure increases, volume _____

If pressure decreases, volume _____

If volume increases, pressure _____

If volume decreases, pressure _____

5. What is the relationship between temperature and pressure? Explain why this happens.

6. Fill in the following:

If temperature increases, pressure _____

If temperature decreases, pressure _____

7. What is the relationship between the temperature and volume of a gas? What is this relationship called? Explain why this happens.

8. Fill in the following:

If temperature increases, volume _____

If temperature decreases, volume _____

9. Why is it important to consider all three factors—pressure, temperature, and volume—when working with gases?