

Gas Law Intro

Chem Worksheet 14-0

Name _____

1. In a chemistry calculation what does the variable 'P' represent? List at least 5 possible units.
2. What does the variable 'V' represent? List at least 2 possible units.
3. When the pressure on a gas increases, its volume _____.
4. Which of the following equations best describes the relationship between volume and pressure?

$$\frac{P}{V} = \text{constant}$$

$$P \times V = \text{constant}$$

5. What does the variable 'T' represent? Which units are always used for this variable?
6. A gas is collected at 216°C. What is the Kelvin temperature?
7. When the temperature of a gas increases, its volume _____.
8. Which of the following equations best describes the relationship between volume and temperature?

$$\frac{V}{T} = \text{constant}$$

$$V \times T = \text{constant}$$

9. The pressure on 100 L of a gas is doubled. The new volume will be _____.
10. The absolute temperature on 100 L of gas is doubled. The new volume will be _____.