

Introduction to Gases Worksheet

Complete this worksheet as you watch the video, and use these notes to review later.

1. What is pressure? _____

2. What determines the volume of a gas? _____

3. What does the temperature of a gas measure? _____

4. What variable is used to represent how much of a gas you have or how many molecules? _____

5. What equation do you use to convert from measured mass to number of moles? _____

6. What is the relationship between number of moles and volume of a gas? What is this law called? Example: As the number of moles goes _____, volume goes _____.
Number of moles and volume are _____ proportional.

7. Write out the relationship between temperature and volume in words. Write the relationship as an equation. _____

8. What property was the liquid nitrogen used to demonstrate? _____

9. What relationship was the bell jar used to demonstrate? What equation explains this principle? _____

10. Demonstrate how Avogadro's Law, Charles' Law and Boyle's Law can be combined to form the Ideal Gas Law. _____

