

## Gas Variables

How are the variables that describe a gas related?

### Why?

Imagine buying a balloon bouquet at a party store. How will the helium gas in the bouquet behave if you carry it outside on a hot summer day? How will it behave if you carry it outside during a snowstorm? What happens if the balloons are made of latex, which can stretch? What happens if the balloons are made of Mylar<sup>®</sup>, which cannot stretch? What if you add just a small amount of gas to each balloon? What if you add a lot of gas? In this activity, you will explore four variables that quantify gases—pressure (P), volume (V), temperature (T), and moles (n) of gas. These four variables can be related mathematically so that predictions about gas behavior can be made.

### Model 1 – Gases in a Nonflexible Container

#### Experiment A (Adding more gas)



A1

Volume = 1 unit  
 External pressure = 1 atm  
 Internal pressure = 1 atm  
 Temperature = 200 K



A2

Volume = 1 unit  
 External pressure = 1 atm  
 Internal pressure = 2 atm  
 Temperature = 200 K



A3

Volume = 1 unit  
 External pressure = 1 atm  
 Internal pressure = 3 atm  
 Temperature = 200 K

#### Experiment B (Heating the gas)



B1

Volume = 1 unit  
 External pressure = 1 atm  
 Internal pressure = 1 atm  
 Temperature = 200 K



B2

Volume = 1 unit  
 External pressure = 1 atm  
 Internal pressure = 2 atm  
 Temperature = 400 K



B3

Volume = 1 unit  
 External pressure = 1 atm  
 Internal pressure = 3 atm  
 Temperature = 600 K

\*Note: Volume in this model is recorded in units rather than liters because 4 molecules of gas at the conditions given would occupy a very small space ( $\sim 1 \times 10^{-22}$  gal). The particles shown here are much larger compared to the space between them than actual gas particles.



# Gas Variables Pogil Activities Answer Key

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## **Gas Variables Pogil Activities Answer Key:**

This book delves into Gas Variables Pogil Activities Answer Key. Gas Variables Pogil Activities Answer Key is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Gas Variables Pogil Activities Answer Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Gas Variables Pogil Activities Answer Key
    - Chapter 2: Essential Elements of Gas Variables Pogil Activities Answer Key
    - Chapter 3: Gas Variables Pogil Activities Answer Key in Everyday Life
    - Chapter 4: Gas Variables Pogil Activities Answer Key in Specific Contexts
    - Chapter 5: Conclusion
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  4. In chapter 3, the author will examine the practical applications of Gas Variables Pogil Activities Answer Key in daily life. This chapter will showcase real-world examples of how Gas Variables Pogil Activities Answer Key can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Gas Variables Pogil Activities Answer Key in specific contexts. This chapter will explore how Gas Variables Pogil Activities Answer Key is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Gas Variables Pogil Activities Answer Key. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Gas Variables Pogil Activities Answer Key.

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