

## 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

**D Siedentop**



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

## Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Gas Variables Pogil Activities Answer Key**

In a global inundated with screens and the cacophony of quick transmission, the profound power and mental resonance of verbal art usually diminish in to obscurity, eclipsed by the continuous assault of noise and distractions. Yet, nestled within the musical pages of **Gas Variables Pogil Activities Answer Key**, a interesting function of fictional splendor that pulses with organic emotions, lies an memorable journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this magical opus guides readers on a psychological odyssey, softly revealing the latent possible and profound influence embedded within the delicate internet of language. Within the heart-wrenching expanse of the evocative evaluation, we can embark upon an introspective exploration of the book is key styles, dissect their captivating publishing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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