

# 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.

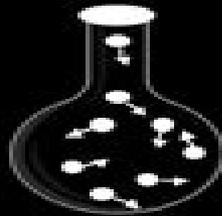
## Model 1 – Gases in a Nonflexible Container

### Experiment A (Adding more gas)



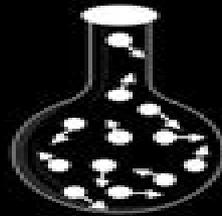
A1

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



A2

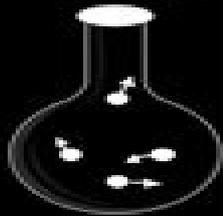
Volume = 1 unit  
External pressure = 1 atm  
Internal pressure = 2 atm  
Temperature = 200 K



A3

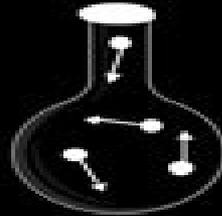
Volume = 1 unit  
External pressure = 1 atm  
Internal pressure = 3 atm  
Temperature = 200 K

### Experiment B (Heating the gas)



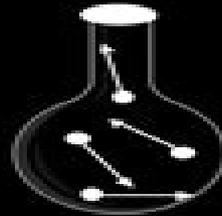
B1

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 ( $\sim 1 \times 10^{-22}$   $\mu\text{L}$ ). The particles shown here are much larger compared to the space between them than actual gas particles.

# Gas Variables Answers

**K Morrison**



## Gas Variables Answers:

## Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Gas Variables Answers**

In some sort of inundated with monitors and the cacophony of instant interaction, the profound power and emotional resonance of verbal beauty usually disappear in to obscurity, eclipsed by the continuous assault of noise and distractions. Yet, set within the lyrical pages of **Gas Variables Answers**, a fascinating perform of literary beauty that impulses with organic feelings, lies an unique trip waiting to be embarked upon. Composed by a virtuoso wordsmith, that mesmerizing opus manuals viewers on a psychological odyssey, lightly revealing the latent potential and profound impact embedded within the intricate internet of language. Within the heart-wrenching expanse with this evocative analysis, we will embark upon an introspective exploration of the book is main themes, dissect their fascinating publishing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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