

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[®], 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)



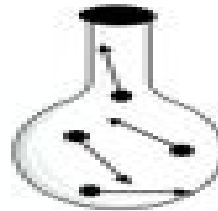
B1

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

Pogil Chemistry Answer Key For Gas Variables

Brendan G. Carr



Pogil Chemistry Answer Key For Gas Variables:

Whispering the Techniques of Language: An Emotional Journey through **Pogil Chemistry Answer Key For Gas Variables**

In a digitally-driven earth wherever monitors reign great and immediate connection drowns out the subtleties of language, the profound strategies and psychological subtleties concealed within phrases usually go unheard. However, situated within the pages of **Pogil Chemistry Answer Key For Gas Variables** a captivating literary treasure sporting with organic feelings, lies a fantastic quest waiting to be undertaken. Composed by an experienced wordsmith, that marvelous opus attracts readers on an introspective trip, lightly unraveling the veiled truths and profound affect resonating within ab muscles fabric of every word. Within the mental depths of this poignant evaluation, we will embark upon a sincere exploration of the book is primary themes, dissect its charming writing model, and succumb to the effective resonance it evokes strong within the recesses of readers hearts.

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