

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



Gas Variables Pogil Activities Answer Key

Tobias Bleicker



Gas Variables Pogil Activities Answer Key:

Uncover the mysteries within its enigmatic creation, **Gas Variables Pogil Activities Answer Key**. This downloadable ebook, shrouded in suspense, is available in a PDF format (Download in PDF: *). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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EXERCISES ... ANSWERS TO EVEN-NUMBERED EXERCISES - Sobell Jul 27, 2013 — Answers to Even-numbered Exercises
1. What does the /etc/resolv.conf file do? What do the nameserver lines in
1 Answers to Chapter 3, Odd-numbered Exercises
1) $r(n) = 25r(n - 1) + 3r(n - 2) + 10n - 1$. There are $25r(n - 1)$ identifiers satisfying the first condition, $3r \dots$
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