

# Gas Variables

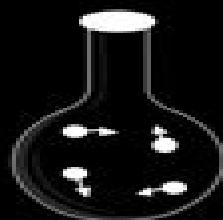
How are the variables that describe a gas related?

## 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.

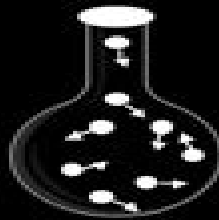
## Model 1 – Gases in a Nonflexible Container

### Experiment A (Adding more gas)



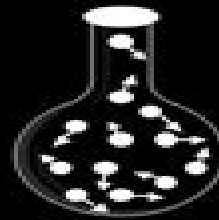
A1

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



A2

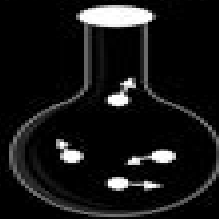
Volume = 1 unit  
External pressure = 1 atm  
Internal pressure = 2 atm  
Temperature = 200 K



A3

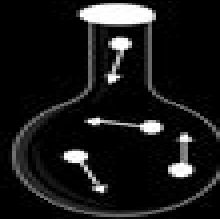
Volume = 1 unit  
External pressure = 1 atm  
Internal pressure = 3 atm  
Temperature = 200 K

### Experiment B (Heating the gas)



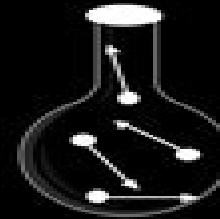
B1

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

**Marcia L. Gillette, Ira Blei, Wendy  
Gloffke, George Odian**



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*The Illinois Statewide Gas Utility Plan, 1993-2002: Executive summary*, 1992     **Journal of Gas Lighting and Water Supply**, 1906     **American Gas Association Monthly** American Gas Association, 1920     **Proceedings of the Twenty-Third Annual Conference of the Cognitive Science Society** Johanna D. Moore, Keith Stenning, 2001 Vol includes all papers and posters presented at 2001 Cog Sci Mtg summaries of symposia invited addresses Deals w issues of repres model g cog processes Appeals to scholars in subdisciplines that comprise Cog Sci Psych Computr Sci Neuro Lin     **The Oil and Gas Journal**, 1927     **Computer Program for Calculation of Real Gas Turbulent Boundary Layers with Variable Edge Entropy**, 1974     **Gas World**, 1920     Gas World (1884), 1915     **Gas Age**, 1929 Includes summaries of proceedings and addresses of annual meetings of various gas associations L C set includes an index to these proceedings 1884 1902 issued as a supplement to Progressive age Feb 15 1910     **Proceedings of the Ohio Gas Light Association** Ohio Gas Light Association, 1904     **Heat Transmission Coefficients of Tubular Gas Condensers** Allan Philip Colburn, 1927     **Gas Industry**, 1927     **Holt Chemistry** Ralph Thomas Myers, 2004     *Gas*, 1961     *Gas Engine*, 1902

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