

# Gas Variables

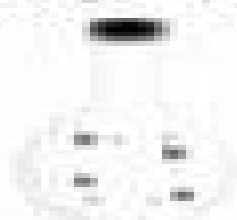
How are the variables that describe a gas related?

## 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 = 2 units

External pressure = 1 atm

Internal pressure = 1 atm

Temperature = 300 K



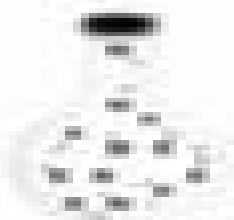
A2

Volume = 2 units

External pressure = 1 atm

Internal pressure = 2 atm

Temperature = 300 K



A3

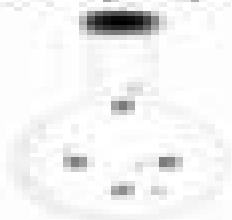
Volume = 2 units

External pressure = 1 atm

Internal pressure = 3 atm

Temperature = 300 K

Experiment B (Heating the gas)



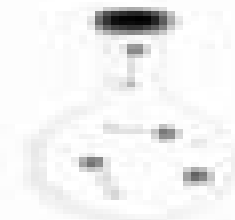
B1

Volume = 2 units

External pressure = 1 atm

Internal pressure = 1 atm

Temperature = 300 K



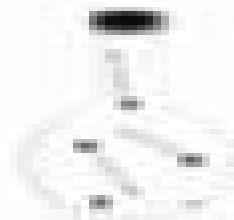
B2

Volume = 2 units

External pressure = 1 atm

Internal pressure = 2 atm

Temperature = 400 K



B3

Volume = 2 units

External pressure = 1 atm

Internal pressure = 3 atm

Temperature = 600 K

\*Note: Volume in the model is not set in units, rather than liters, because 0 molecules of gas at the conditions given would take every third space ( $1 \times 10^{-21}$  m). These particles themselves are much larger compared to the space between them than in a liquid or solid.

# 2gas Variables Packet Answers

**Karen Timberlake**



## **2gas Variables Packet Answers:**

**Study Guide with Selected Solutions** Karen Timberlake, 2002-08-06 Written by the author the Study Guide is keyed to the learning goals in the text and designed to promote active learning through a variety of exercises with answers and mastery exams Also contains complete solutions to odd numbered problems

**Water: Fundamentals as the Basis for Understanding the Environment and Promoting Technology** P.G. Debenedetti, M.A. Ricci, F. Bruni, 2015-05-18 Water fascinating in all its phases forms and states of aggregation Without it life as we know it would not exist on Earth for as Paracelsus stated in the 16th century water is the matrix of the world and of all its creatures While it may appear to be a simple molecule there is still much about it which is not fully understood What is notably lacking is a microscopically based understanding of the reasons for the many anomalous properties of water This book presents lectures from the Enrico Fermi summer school Water fundamentals as the basis for understanding the environment and promoting technology held in Varenna Italy in July 2013 The aim of the school was to offer a glimpse of the many questions that remain unanswered about this molecule and topics covered included water in relation to other liquids biological water local environment of water protons atmospheric water amorphous solid phases of water NMR studies of water spectroscopic studies of water the structure of liquid water and supercooled water among others While this list is by no means exhaustive or complete it is wide enough to provide a solid basis to young researchers in the field and the book will be a valuable source of reference for students and all those with an interest in the properties of this fascinating substance

**Coal-fueled Diesel Engines, 1991**  
Jerald A. Caton, Holmes A. Webb, 1991 *Harcourt Science: Life science, [grade] 4, units A and B, teacher's ed*, 2000

Official Gazette of the United States Patent Office United States. Patent Office, 1915 *Boys' Life*, 1957-07 Boys Life is the official youth magazine for the Boy Scouts of America Published since 1911 it contains a proven mix of news nature sports history fiction science comics and Scouting

**Government Reports Announcements & Index**, 1990-12

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