

Exploring the Properties of Gases

The purpose of this investigation is to conduct a series of experiments, each of which illustrates a different gas law. You will be given a list of equipment and materials and some general guidelines to help you get started with each experiment. Three properties of gases will be investigated: pressure, volume, and temperature. By assembling the equipment, conducting the appropriate tests, and analyzing your data and observations, you will be able to describe the gas laws, both qualitatively and mathematically.

OBJECTIVES

In this experiment, you will

- Conduct a set of experiments, each of which illustrates a gas law.
- Gather data to identify the gas law described by each activity.
- Complete the calculations necessary to evaluate the gas law in each activity.
- From your results, derive a single mathematical relationship that relates pressure, volume, and temperature.

MATERIALS

Vernier computer interface
computer
Vernier Gas Pressure Sensor
Temperature Probe
20 mL gas syringe
plastic tubing with two Luer-lock connectors
rubber stopper assembly with two-way valve

large-volume container for water bath (at least
10 cm in diameter and 25 cm high)
125 mL Erlenmeyer flask
hot-water supply (up to 50°C) or hot plate
ice
100 mL graduated cylinder

PRE-LAB EXERCISE

Review each of the three parts of this experiment before starting your work. You will need to decide the best way to conduct the testing, so it is wise to make some plans before you begin. You may wish to conduct a test run without collecting data, in order to observe how the experiment will proceed.

In each part of the experiment, you will investigate the relationship between two of the three possible variables, the other being constant. In this pre-lab exercise, sketch a graph that describes your hypothesis as to the mathematical relationship between the two variables; e.g., direct relationship or inverse relationship.

Part I Pressure, P , and volume, V (temperature and number of molecules constant).

Part II Pressure, P , and absolute temperature, T (volume and number of molecules constant).

Part III Volume, V , and absolute temperature, T (pressure and number of molecules constant).

Exploring The Properties Of Gases Lab

Michael Rajnik



Exploring The Properties Of Gases Lab:

The Enigmatic Realm of **Exploring The Properties Of Gases Lab**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Exploring The Properties Of Gases Lab** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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