

PROCEDURE

Part I Pressure and Volume

1. Obtain and wear goggles.
2. Position the piston of a plastic 20 mL syringe so that there will be a measured volume of air trapped in the barrel of the syringe. Attach the syringe to the valve of the Gas Pressure Sensor, as shown in Figure 1. A gentle half turn should connect the syringe to the sensor securely. **Note:** Read the volume at the front edge of the inside black ring on the piston of the syringe, as indicated by the arrow in Figure 1.



Figure 1

3. Connect the Gas Pressure Sensor to the Go!Link and the computer. Connect the Go!Link to the computer using the proper cable.
4. Start the Logger Pro program on your computer. Open the file "30a Gases" from the Advanced Chemistry with Vernier folder. This file allows you to collect pressure data from the Gas Pressure Sensor, using Events with Entry mode. For each pressure reading you take with a button, this mode lets you enter a volume value.
5. Measure the pressure of the air in the syringe at various volumes.

Part II Pressure and Absolute Temperature

In this experiment, you will study the relationship between the absolute temperature of a gas sample and the pressure it exerts. Using the apparatus shown in Figure 2, you will place an Erlenmeyer flask containing an air sample in a water bath and you will vary the temperature of the water bath.

6. Connect the Gas Pressure Sensor to 1 Go!Link and a Temperature Probe to another Go!Link interface.
7. Assemble the apparatus shown in Figure 2. Be sure all fittings are airtight. Make sure the rubber stopper and flask neck are dry, then twist and push hard on the rubber stopper to ensure a tight fit.
8. Set up water baths in the large-volume container as you need them, ranging from ice water to hot water.
9. Open the file "30b Gases" from the Advanced Chemistry with Vernier folder. This file is setup to collect pressure and temperature data from the attached sensors, using Selected Events mode. This mode allows you to collect a data pair simultaneously from the Gas Pressure Sensor and Temperature Probe by clicking on the button.

Exploring Gas Laws Lab Key

JS Bruner



Exploring Gas Laws Lab Key:

Exploring Gas Laws Lab Key Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Exploring Gas Laws Lab Key**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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