Bouncing off the Walls PhET Gas Law Simulation 2013

60 TO: http://phet.colorado.edu/en/simulation/gas-properties OR google "Phet Gas properties".

GOAL: to investigate the effect of: a) volume on pressure; b) temperature on volume;

c) number of particles on pressure; d) temperature on pressure.

PRELAB: Sketch your prediction of each relationship.



COLLECTING DATA

PART 1: Effect of Volume on Pressure

1. Hit the reset button.

In the upper left corner under "Constant Parameters", select "Temperature". This will keep the temperature relatively constant. Set the number of particles to a constant value.

To measure the volume, hit the button "Measurement Tools" and select the "Ruler". The ruler can be moved so you can measure the size of the box to get a measurement of volume.

4. Take 5 separate measurements over a large range of numbers without exploding the container.

Table 2: Volume and Pressure of a gas with temperature constant at____ and Particles constant

41	 	
Volume (nm)		
Pressure Pressure (atm)		

Questions

1. What is the independent variable?

2. What is the dependent variable?

3. What 2 factors are being held constant?

Exploring Gas Laws Worksheet Answers Phet

J Rink

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