

Gas Properties PhET Simulation Worksheet

Learning Goals

- Design experiments to measure the relationship between pressure, volume, and temperature, and moles of an ideal gas.
- Describe these relationships graphically (using graphs) and quantitatively (using numbers).

Experiment

1. Go to [Gas Properties PhET Simulation](https://phet.colorado.edu/en/simulations/gas-properties) and click on the picture. Select Ideal.
 - a. <https://phet.colorado.edu/en/simulations/gas-properties>
2. Familiarize yourself with the controls.

Ideal Screen

Pump gas molecules into a container and discover what happens as you change the volume, add or remove heat, and more.

The screenshot shows the PhET Gas Properties simulation interface. On the left side, there are three main control buttons: 'COUNT' (to view the number of particles), 'RESIZE' (to change the container's width), and 'ADD or REMOVE' (to add or remove heat). On the right side, there are four buttons: 'HOLD' (to hold a parameter constant), 'VIEW' (to view the container's width), 'PUMP' (to pump particles into the container), and 'EMPTY' (to empty the container). A 'Real Gases' menu is also visible on the right, with options for 'Ideal Gas', 'Van der Waals', 'Redlich-Kwong', and 'Peng-Robinson'. The central window shows a 3D container filled with blue and red particles, representing gas molecules. The container is connected to a pump and a thermometer. The PhET logo is visible at the bottom right.

3. Perform an experiment to determine the relationship between the variables listed in the table below. Summarize your findings by explaining the relationship between variables.

Variables	Constant	Explain your Experiment	Relationship Between Variables
V and P	T		
V and T	P		

Gas Particles Simulation Activity Answer Sheet

Fan Zhang, Zoe Pikramenou



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