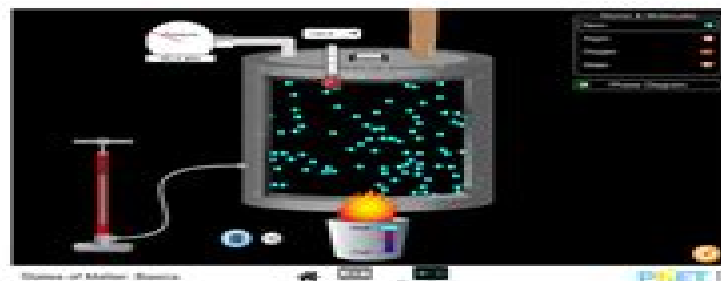


Gas Laws Simulation Lab

- Go to Phet.colorado.edu
- Search for the "States of Matter: Basics" simulation.
- Click on the "Phase Changes" icon.
- Select "Oxygen."



1. The simulation shows a quantity of oxygen molecules. What state of matter is this? ☐ solid
2. How do you know?
Particles have a define shape
3. Heat the oxygen to about 150 K. What state of matter is this? ☐ Gas
4. How do you know?
because they are all spread out and have no define shape

Experiment One: Constant volume.

- Leave the oxygen at 150 K. In the table below, record the pressure and temperature of the oxygen in the first row.
- Heat the oxygen to about 450 K.
- Record the new temperature and pressure in the second row of the table.
- Heat the oxygen to about 900 K.
- Record the new temperature and pressure in the third row of the table.

Temperature vs. pressure at constant volume	
Temperature (K)	Pressure (atm)
150	2.5
450	11.8
900	35.5

5. Write a statement describing how the temperature of a quantity of a gas is related to its pressure at constant volume.
As the temperture rises, so does pressure

Phet Gas Law Simulation Answer Key

Franklin S. Allaire, Jennifer E. Killham

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

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