



Name: _____

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Student Exploration: Boyle's Law and Charles's Law

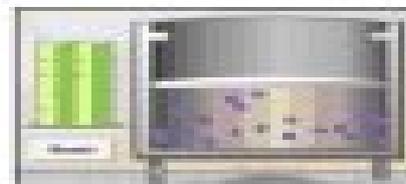
Vocabulary: absolute zero, Boyle's law, Charles's law, Gay-Lussac's law, Kelvin scale, pressure

Prior Knowledge Question (Do this BEFORE using the Gizmo.)

A small helium tank measures about two feet (60 cm) high. Yet it can fill over 50 balloons! How can such a small tank contain enough helium to fill so many balloons?

Gizmo Warm-up

The Boyle's Law and Charles's Law Gizmo shows a container of gas. Inside, small purple spheres represent gas molecules.



1. Observe the particles. Are they all moving at the same speed? _____
2. How do the particles interact with the walls and lid of the container? _____

These interactions contribute to the **pressure** on the walls of the container. Pressure is defined as force per unit area. The SI units of pressure are newtons per square meter (N/m²), or pascals (Pa).

3. Slowly drag the temperature (**T**) slider back and forth. (Note: In this Gizmo, the **Kelvin scale** is used to measure temperature. On the Kelvin scale, 0 degrees is **absolute zero**, the coldest possible temperature. Absolute zero is equal to -273.15 °C or -459.67 °F)
 - A. How does the change in temperature affect the speed of the molecules? _____
 - B. How does the change in temperature affect the volume of the container? _____



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