

Name: _____

Date: _____

Student Exploration: Boyle's Law and Charles' Law

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

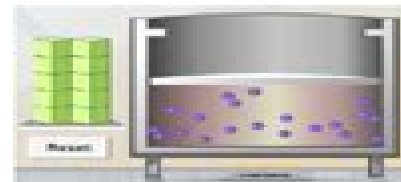
Prior Knowledge Question (Do this BEFORE using the Gizmo.)

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?

The balloons don't need a lot of helium, a small container can hold a lot of helium.

Gizmo Warm-up

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



1. Observe the particles. Are they all moving at the same speed? No, some move faster and others move slower
2. How do the particles interact with the walls and lid of the container? They bounce off 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/m^2), 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? Higher temperature, faster speed. Lower temperature, slower speed.
 - B. How does the change in temperature affect the volume of the container? Higher temperature, higher volume. Lower temperature, less volume.

Boyle S Law Gizmo Answer Key

K Payea

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Boyle S Law Gizmo Answer Key:

Whispering the Strategies of Language: An Mental Journey through **Boyle S Law Gizmo Answer Key**

In a digitally-driven world where displays reign great and quick conversation drowns out the subtleties of language, the profound strategies and psychological subtleties hidden within words frequently get unheard. Yet, situated within the pages of **Boyle S Law Gizmo Answer Key** a interesting literary value sporting with natural feelings, lies a fantastic journey waiting to be undertaken. Penned by an experienced wordsmith, that charming opus invites readers on an introspective trip, softly unraveling the veiled truths and profound impact resonating within the very cloth of every word. Within the mental depths of this moving review, we will embark upon a sincere exploration of the book is core styles, dissect their charming writing type, and fail to the powerful resonance it evokes heavy within the recesses of readers hearts.

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