



## 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

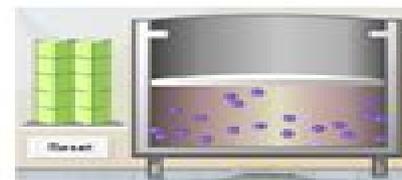
**Prior Knowledge Question** (Do this BEFORE using the Gizmo.)

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?

The small container can hold all that helium in the container because the gas in the tank is under a lot of pressure.

### 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? **Yes they are all moving at the same speed.**

2. How do the particles interact with the walls and lid of the container?

The bounce off the walls and lid while providing pressure

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 ( $\text{N/m}^2$ ), 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  $-273.15\text{ }^\circ\text{C}$  or  $-459.67\text{ }^\circ\text{F}$ )

A. How does the change in temperature affect the speed of the molecules? **Lower the temperature slower the molecules. Higher the temperature the faster the molecules.**

How does the change in temperature affect the volume of the container? **As the temperature gets higher the pressure increases and the lid goes higher due to the force being applied.**



# Explore Learning Gizmo Answer Key Charles Law

**Minjie Lin**



**Explore Learning Gizmo Answer Key Charles Law:**

The Top Books of the Year Explore Learning Gizmo Answer Key Charles Law The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthraling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. Explore Learning Gizmo Answer Key Charles Law : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Explore Learning Gizmo Answer Key Charles Law : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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