

Activity A:
Boyle's law

Get the Gizmo ready:

- Set the temperature (T) to 300 K.
- Check that the mass (m) is set to 0 kg.



Question: How does pressure affect the volume of a gas?

1. **Form hypothesis:** In this experiment, you will pile weights on the lid of the container of gas. What do you think will happen as more weight is added to the lid?

The harder it will be for the pressure to keep it up.

2. **Notice:** Look at the DESCRIPTION pane. What is the mass of the lid? **10 kg**

How much pressure does the lid exert on the gas? **98.1 N/m²**

3. **Collect data:** With the temperature held constant at 300 K, use the **Select mass** slider to place weights on the lid. Record the pressure and volume of the gas for each added mass.

Added mass on the lid	Total mass (lid + added mass)	Pressure*	Volume
0 kg	10 kg	98.1 N/m ²	2.54 m ³
10 kg	20 kg	196.2 N/m ²	1.27 m ³
20 kg	30 kg	294.3 N/m ²	0.85 m ³
30 kg	40 kg	392.4 N/m ²	0.64 m ³

*This model does not include atmospheric pressure, which is 101,325 N/m².

4. **Analyze:** As the pressure increases at constant temperature, what happens to the volume of the gas? **The volume lowers every time the pressure rises**

This relationship is called **Boyle's law**.

5. **Calculate:** Compare the pressure and volume values in your data table.

A. How did doubling the pressure change the gas volume? **It lowered the volume by half of the original**

B. How did tripling the pressure change the gas volume? **It lowered the original volume by 2/4 of its value**

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**Wisconsin. Educational
Communications Board**



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New York Magazine ,1991-03-11 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea

Biennial Report - Wisconsin Educational Communications Board Wisconsin. Educational Communications Board,1971

Decoding **Explore Learning Gizmo Answer Key Charles Law**: Revealing the Captivating Potential of Verbal Expression

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Table of Contents Explore Learning Gizmo Answer Key Charles Law

1. Understanding the eBook Explore Learning Gizmo Answer Key Charles Law
 - The Rise of Digital Reading Explore Learning Gizmo Answer Key Charles Law
 - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Gizmo Answer Key Charles Law
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Explore Learning Gizmo Answer Key Charles Law
 - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Gizmo Answer Key Charles Law
 - Personalized Recommendations
 - Explore Learning Gizmo Answer Key Charles Law User Reviews and Ratings

- Explore Learning Gizmo Answer Key Charles Law and Bestseller Lists
- 5. Accessing Explore Learning Gizmo Answer Key Charles Law Free and Paid eBooks
 - Explore Learning Gizmo Answer Key Charles Law Public Domain eBooks
 - Explore Learning Gizmo Answer Key Charles Law eBook Subscription Services
 - Explore Learning Gizmo Answer Key Charles Law Budget-Friendly Options
- 6. Navigating Explore Learning Gizmo Answer Key Charles Law eBook Formats
 - ePub, PDF, MOBI, and More
 - Explore Learning Gizmo Answer Key Charles Law Compatibility with Devices
 - Explore Learning Gizmo Answer Key Charles Law Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Explore Learning Gizmo Answer Key Charles Law
 - Highlighting and Note-Taking Explore Learning Gizmo Answer Key Charles Law
 - Interactive Elements Explore Learning Gizmo Answer Key Charles Law
- 8. Staying Engaged with Explore Learning Gizmo Answer Key Charles Law
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Explore Learning Gizmo Answer Key Charles Law
- 9. Balancing eBooks and Physical Books Explore Learning Gizmo Answer Key Charles Law
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Explore Learning Gizmo Answer Key Charles Law
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Explore Learning Gizmo Answer Key Charles Law
 - Setting Reading Goals Explore Learning Gizmo Answer Key Charles Law
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Explore Learning Gizmo Answer Key Charles Law
 - Fact-Checking eBook Content of Explore Learning Gizmo Answer Key Charles Law
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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