

PHYSICAL SCIENCES (CHEMISTRY) GRADE 11 TERM 3 FORMAL EXPERIMENT - PART 2

TIME: 1 HOUR

(1)

(6)

(1)

(3)

(2)

(4)

VERIFICATION OF BOYLE'S LAW

INDIVIDUAL WORK (should be done under strict supervision).

- Write a scientific report which must include the following:
- 1.1 Aim
- 1.2 Apparatus and method (5)
- Observations and Recording of results (Copy the table below onto your book or sheet of paper and transfer the results you recorded when conducting the experiment). Calculate and pV for each set of results and record your answers in the table.

Volume (V) cm³	Pressure (p) kPa	pV (°)
	+	
	+	

- 3. Analysis of the results:
- 3.1 Identify the following variables for the experiment:
 - Independent
 - Dependent
- Controlled
 Use the graph paper provided by your teacher to draw graphs of V versus p and V versus.
- 4. Conclusion

55

- 4.1 Examine the results in your table as well as the two graphs you have drawn, what happens to the volume of the gas in the tube as the pressure is decreased.
- 4.2 Write down a conclusion for this experiment.

Questions and discussion:

- 5.1 Explain why you have to wait for a few minutes before you can take readings.
- 5.2 Explain the relationship between pressure and volume in terms of the kinetic theory of gases.

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- 1. Understanding the eBook Physical Science Grade 11 Answers Papers
 - The Rise of Digital Reading Physical Science Grade 11 Answers Papers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Physical Science Grade 11 Answers Papers
 - 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 Physical Science Grade 11 Answers Papers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Physical Science Grade 11 Answers Papers

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

- Fact-Checking eBook Content of Physical Science Grade 11 Answers Papers
- 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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