



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

**TIME: 1 HOUR**

**VERIFICATION OF BOYLE'S LAW  
INDIVIDUAL WORK (should be done under strict supervision).**

**1. Write a scientific report which must include the following:**

**1.1 Aim**

**(1)**

**1.2 Apparatus and method**

**(5)**

**2. 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  $pV$  for each set of results and record your answers in the table.

Volume (V) $\text{cm}^3$	Pressure (p) kPa		$pV$ (J)

**(6)**

**3. Analysis of the results:**

**3.1 Identify the following variables for the experiment:**

- Independent
- Dependent
- Controlled

**(3)**

**3.2 Use the graph paper provided by your teacher to draw graphs of V versus p and V versus  $\frac{1}{p}$ .**

**(18)**

**4. Conclusion**

**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.**

**(1)**

**4.2 Write down a conclusion for this experiment.**

**(3)**

**5**

**Questions and discussion:**

**5.1 Explain why you have to wait for a few minutes before you can take readings.**

**(2)**

**5.2 Explain the relationship between pressure and volume in terms of the kinetic theory of gases.**

**(4)**

# Physical Science Grade1caps Capricorn District 2march2question Paper

**N Colangelo**



**Physical Science Grade1caps Capricorn District 2march2question Paper:**

## **Physical Science Grade1caps Capricorn District 2march2question Paper** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Physical Science Grade1caps Capricorn District 2march2question Paper**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Physical Science Grade1caps Capricorn District 2march2question Paper**

1. Understanding the eBook Physical Science Grade1caps Capricorn District 2march2question Paper
  - The Rise of Digital Reading Physical Science Grade1caps Capricorn District 2march2question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade1caps Capricorn District 2march2question Paper
  - 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 Grade1caps Capricorn District 2march2question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade1caps Capricorn District 2march2question Paper
  - Personalized Recommendations
  - Physical Science Grade1caps Capricorn District 2march2question Paper User Reviews and Ratings

- Physical Science Grade1caps Capricorn District 2march2question Paper and Bestseller Lists
- 5. Accessing Physical Science Grade1caps Capricorn District 2march2question Paper Free and Paid eBooks
  - Physical Science Grade1caps Capricorn District 2march2question Paper Public Domain eBooks
  - Physical Science Grade1caps Capricorn District 2march2question Paper eBook Subscription Services
  - Physical Science Grade1caps Capricorn District 2march2question Paper Budget-Friendly Options
- 6. Navigating Physical Science Grade1caps Capricorn District 2march2question Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Grade1caps Capricorn District 2march2question Paper Compatibility with Devices
  - Physical Science Grade1caps Capricorn District 2march2question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Grade1caps Capricorn District 2march2question Paper
  - Highlighting and Note-Taking Physical Science Grade1caps Capricorn District 2march2question Paper
  - Interactive Elements Physical Science Grade1caps Capricorn District 2march2question Paper
- 8. Staying Engaged with Physical Science Grade1caps Capricorn District 2march2question Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Grade1caps Capricorn District 2march2question Paper
- 9. Balancing eBooks and Physical Books Physical Science Grade1caps Capricorn District 2march2question Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Grade1caps Capricorn District 2march2question Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Grade1caps Capricorn District 2march2question Paper
  - Setting Reading Goals Physical Science Grade1caps Capricorn District 2march2question Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Grade1caps Capricorn District 2march2question Paper
  - Fact-Checking eBook Content of Physical Science Grade1caps Capricorn District 2march2question Paper
  - 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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