



**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 Controlled Test For Term3 Grade11

**J Rink**



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## **Table of Contents Physical Science Controlled Test For Term3 Grade11**

1. Understanding the eBook Physical Science Controlled Test For Term3 Grade11
  - The Rise of Digital Reading Physical Science Controlled Test For Term3 Grade11
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Controlled Test For Term3 Grade11
  - 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 Controlled Test For Term3 Grade11
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Controlled Test For Term3 Grade11
  - Personalized Recommendations
  - Physical Science Controlled Test For Term3 Grade11 User Reviews and Ratings
  - Physical Science Controlled Test For Term3 Grade11 and Bestseller Lists
5. Accessing Physical Science Controlled Test For Term3 Grade11 Free and Paid eBooks
  - Physical Science Controlled Test For Term3 Grade11 Public Domain eBooks
  - Physical Science Controlled Test For Term3 Grade11 eBook Subscription Services

- Physical Science Controlled Test For Term3 Grade11 Budget-Friendly Options
- 6. Navigating Physical Science Controlled Test For Term3 Grade11 eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Controlled Test For Term3 Grade11 Compatibility with Devices
  - Physical Science Controlled Test For Term3 Grade11 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Controlled Test For Term3 Grade11
  - Highlighting and Note-Taking Physical Science Controlled Test For Term3 Grade11
  - Interactive Elements Physical Science Controlled Test For Term3 Grade11
- 8. Staying Engaged with Physical Science Controlled Test For Term3 Grade11
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Controlled Test For Term3 Grade11
- 9. Balancing eBooks and Physical Books Physical Science Controlled Test For Term3 Grade11
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Controlled Test For Term3 Grade11
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Controlled Test For Term3 Grade11
  - Setting Reading Goals Physical Science Controlled Test For Term3 Grade11
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Controlled Test For Term3 Grade11
  - Fact-Checking eBook Content of Physical Science Controlled Test For Term3 Grade11
  - 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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