



**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) 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 Control Test 2013 Term 3 Grd11

Edunetics Staff



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Adopting the Beat of Phrase: An Psychological Symphony within **Physical Science Control Test 2013 Term 3 Grd11**

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Table of Contents Physical Science Control Test 2013 Term 3 Grd11

1. Understanding the eBook Physical Science Control Test 2013 Term 3 Grd11
 - The Rise of Digital Reading Physical Science Control Test 2013 Term 3 Grd11
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Control Test 2013 Term 3 Grd11
 - 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 Control Test 2013 Term 3 Grd11
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Control Test 2013 Term 3 Grd11
 - Personalized Recommendations

- Physical Science Control Test 2013 Term 3 Grd11 User Reviews and Ratings
- Physical Science Control Test 2013 Term 3 Grd11 and Bestseller Lists
- 5. Accessing Physical Science Control Test 2013 Term 3 Grd11 Free and Paid eBooks
 - Physical Science Control Test 2013 Term 3 Grd11 Public Domain eBooks
 - Physical Science Control Test 2013 Term 3 Grd11 eBook Subscription Services
 - Physical Science Control Test 2013 Term 3 Grd11 Budget-Friendly Options
- 6. Navigating Physical Science Control Test 2013 Term 3 Grd11 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Control Test 2013 Term 3 Grd11 Compatibility with Devices
 - Physical Science Control Test 2013 Term 3 Grd11 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Control Test 2013 Term 3 Grd11
 - Highlighting and Note-Taking Physical Science Control Test 2013 Term 3 Grd11
 - Interactive Elements Physical Science Control Test 2013 Term 3 Grd11
- 8. Staying Engaged with Physical Science Control Test 2013 Term 3 Grd11
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Control Test 2013 Term 3 Grd11
- 9. Balancing eBooks and Physical Books Physical Science Control Test 2013 Term 3 Grd11
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Control Test 2013 Term 3 Grd11
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Control Test 2013 Term 3 Grd11
 - Setting Reading Goals Physical Science Control Test 2013 Term 3 Grd11
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Control Test 2013 Term 3 Grd11
 - Fact-Checking eBook Content of Physical Science Control Test 2013 Term 3 Grd11

- 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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