



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 Grade 11 Exemplar

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Physical Science Mr. Rohit Manglik, 2024-07-15 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *Research in Education* ,1971-12 **Resources in Education** ,1997 South Africa Yearbook ,2009 **The Science Teacher** ,1998 Some issues are accompanied by a CD ROM on a selected topic

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Table of Contents Physical Science Grade 11 Exemplar

1. Understanding the eBook Physical Science Grade 11 Exemplar
 - The Rise of Digital Reading Physical Science Grade 11 Exemplar
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade 11 Exemplar
 - 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 a Physical Science Grade 11 Exemplar
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade 11 Exemplar
 - Personalized Recommendations
 - Physical Science Grade 11 Exemplar User Reviews and Ratings
 - Physical Science Grade 11 Exemplar and Bestseller Lists
5. Accessing Physical Science Grade 11 Exemplar Free and Paid eBooks
 - Physical Science Grade 11 Exemplar Public Domain eBooks
 - Physical Science Grade 11 Exemplar eBook Subscription Services
 - Physical Science Grade 11 Exemplar Budget-Friendly Options
6. Navigating Physical Science Grade 11 Exemplar eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Grade 11 Exemplar Compatibility with Devices
 - Physical Science Grade 11 Exemplar Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Grade 11 Exemplar
 - Highlighting and Note-Taking Physical Science Grade 11 Exemplar
 - Interactive Elements Physical Science Grade 11 Exemplar
8. Staying Engaged with Physical Science Grade 11 Exemplar

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Physical Science Grade 11 Exemplar
- 9. Balancing eBooks and Physical Books Physical Science Grade 11 Exemplar
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Grade 11 Exemplar
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Grade 11 Exemplar
 - Setting Reading Goals Physical Science Grade 11 Exemplar
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Grade 11 Exemplar
 - Fact-Checking eBook Content of Physical Science Grade 11 Exemplar
 - 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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