



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 Memo Paper 1 2013 Grade 11 Mpumalanga

Ensheng Dong



Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga:

This book delves into Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga. Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga
 - Chapter 2: Essential Elements of Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga
 - Chapter 3: Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga in Everyday Life
 - Chapter 4: Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga. This chapter will explore what Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga is, why Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga is vital, and how to effectively learn about Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga.
 3. In chapter 2, the author will delve into the foundational concepts of Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga. This chapter will elucidate the essential principles that need to be understood to grasp Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga in its entirety.
 4. In chapter 3, this book will examine the practical applications of Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga in daily life. This chapter will showcase real-world examples of how Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga in specific contexts. The fourth chapter will explore how Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Physical Science Memo Paper 1 2013 Grade 11 Mpumalanga.

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