



**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

CH Cherryholmes



Physical Science Grade 11 Exemplar:

This book delves into Physical Science Grade 11 Exemplar. Physical Science Grade 11 Exemplar is a crucial 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 Grade 11 Exemplar, encompassing both the fundamentals and more intricate discussions.

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