



**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 Grade 11 Exemplar

**Terry C. Jones**



**Physical Science Grade 11 Exemplar:**

## Unveiling the Magic of Words: A Report on "**Physical Science Grade 11 Exemplar**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Physical Science Grade 11 Exemplar**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

<https://crm.avenza.com/files/uploaded-files/HomePages/Pre%20Banquet%20Server%20Check%20List.pdf>

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