



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 Fsdoe First Term 2014

Memorandum

Karin H. Kelder



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Study and Master Physical Science Grade 11 and 12 E. J. Van Zyl, V. Craul, A. Meyer, C. Muller, L. P. Spies, 1999-01

Everything Science , **Focus on Physical Science** , Study And Master Physical Science Grade 11 Learner's Book

Karin H. Kelder, 2006-10-01 Study Master Physical Sciences Grade 11 takes a fresh and innovative look at the world around us and links science to our everyday lives All case studies and information on specialised fields companies and institutions were personally researched by the author and verified by experts in those fields companies and institutions **Physical**

Science , 2009 Physical Science , 2008 *Physical Science* , **Physical Science for Gr 11 : Physical Science for Grade 11 Theory, Exercises & Practical Investigations (CAPS)** J. M. Lucas, 2012 *Physical Sciences* Santie Du Plessis, 2015 *Active Physical Science* Johannes Christoffel Müller, André Van Heerden, 1997

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