



**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)

Life Science Grade 11 Term 3 September Test Mpumalanga

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Index Medicus, 2002 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings Life Sciences J. Grogan, 2017 Study and Master Life Sciences Grade 11 Study Guide Bridget Farham, Peter Preethlall, Sagie Pillay, Annemarie Gebhardt, 2010-02-23 By working thorough this Study Guide you will definitely improve your results whether you are working towards being the top performer in your class or whether you regularly break out in a sweat when you have to present your test scores or school report at home Experienced educators and examiners have put together this marvellous resource that provides you with explanations activities and exercises and their answers for each knowledge area tips on how to study science and to prepare for all kinds of formal assessment additional information on science skills rules and conventions exemplary examination papers for you to work through and their answers a glossary of science terms used in Grade 11 Life Sciences This Study Master Study Guide is written to guide you through the content of the NCS for Life Sciences Study and Master Life Sciences Grade 11 CAPS Learner's Book Annemarie Gebhardt, Peter Preethlall, Sagie Pillay, Bridget Farham, 2012-09-05 Study Master Life Sciences Grade 11 has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement CAPS This new and easy to use course helps learners to master essential content and skills in Life Sciences The comprehensive Learner's Book includes an expanded contents page indicating the CAPS coverage required for each strand a mind map at the beginning of each module that gives an overview of the contents of that module activities throughout that help develop learners science knowledge and skills as well as Formal Assessment tasks to test their learning a review at the end of each unit that provides for consolidation of learning case studies that link science to real life situations and present balanced views on sensitive issues information boxes providing interesting additional information and Note boxes that bring important information to the learner's attention

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