



**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 Sciences Gr 11 Fsdoe Term 2014

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Muller,L. P. Spies**



Physical Sciences Gr 11 Fsdoe Term 2014:

Study and Master Physical Sciences Grade 11 CAPS Teacher's File Karin H. Kelder, 2012-09-11 Study Master Physical 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 Physical Sciences The innovative Teacher s File includes guidance on the teaching of each lesson for the year answers to all activities in the Learner s Book assessment guidelines photocopiable templates and resources for the teacher Physical Sciences 11, 2012 *Physical Sciences* Santie Du Plessis, 2015 **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 **Study and Master Physical Science Grade 11 and 12** E. J. Van Zyl, V. Craul, A. Meyer, C. Muller, L. P. Spies, 1999-01 **Study and Master Physical Sciences Grade 11 Learner's Book** Karin Kelder, 2009-09-02 Study Master Physical Sciences Grade 11 2nd Edition takes a fresh and innovative look at the world around us and links science to our everyday lives The Learner s Book is pitched at a language level that will reach all learners and especially those that take the subject in their second language explains and reinforces the language of science that all Physical Science learners must master to complete the subject successfully includes a wide variety of contexts often linked to activities suitable for assessment offers extensive examples of worked questions and calculations followed by exercises to show learners how to go about answering more challenging questions explains and highlights definitions and formulas in boxes for easy reference provides additional information in the Did you know features includes Summative Assessment activities at the end of modules The Teacher s Guide includes a comprehensive overview of the National Curriculum Statement **Physical Sciences for All**, 2006

Doc Scientia Physical Sciences. Physics Ronel Bernardo, Hendry Du Plessis, Santie Du Plessis, Doc Scientia Centre, 2013 **Physical Sciences. Physics** Ronel Bernardo, 2020 *Physical Sciences Explained* Ron Jones, Neil Berens, 2006 Physical Sciences for the Classroom John Bradley, Maria Lycoudi, 2003 Study and Master Physical Science Grade 11 Learner's Book Afrikaans Translation 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 sciences**, 2009* *Physical Sciences Explained* Ron Jones, Neil Berens, 2008 **Physical Sciences** S. Grussendorff, 2017 **Everything Science**, **Physical Sciences for All** Ubbo Smith, 2009 **Physical Science for Gr 11 : Physical Science for Grade 11 Theory, Exercises & Practical Investigations (CAPS)** J. M. Lucas, 2012 Physical Science Gr. 11 J. M. Lucas, D. Wright, 2007* **Study and Master**

Physical Sciences Grade 11 Assessment Support CD-ROM ANONIMO, Cambridge University Press, 2009-04-30 This Study Master Physical Sciences Grade 11 CD ROM provides additional activities to support teachers in managing and completing the formal assessment tasks required by the National Department of Education

Physical Sciences Gr 11 Fsdoe Term 2014 Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Physical Sciences Gr 11 Fsdoe Term 2014**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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