



**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)

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Handbook of Formative Assessment in the Disciplines Heidi L. Andrade, Randy E. Bennett, Gregory J.

Cizek, 2019-05-14 The Handbook of Formative Assessment in the Disciplines meaningfully addresses current developments in the field offering a unique and timely focus on domain dependency Building from an updated definition of formative assessment the book covers the integration of measurement principles into practice the operationalization of formative assessment within specific domains beyond generic strategies evolving research directions including student involvement and self regulation and new approaches to the challenges of incorporating formative assessment training into pre service and in service educator training As supporters of large scale testing programs increasingly consider the potential of formative assessments to improve teaching and learning this handbook advances the subject through novel frameworks intersections of theory research and practice and attention to discernible disciplines Written for instructors graduate students researchers and policymakers each chapter provides expert perspectives on the procedures and evaluations that enable teachers to adapt teaching and learning in process toward student achievement Diverse educational contexts and research on

metacognition and motivation to enhance self-directed learning Bernadette Geduld, Byron J. Bunt, Divan Jagals, 2025-02-17 This scholarly book explores the latest education research on metacognition and self directed learning providing practical insights for educators and students As the thirteenth volume in the NWU Self Directed Learning Series it focuses on developing metacognitive skills to enhance self regulation motivation and independent thinking key competencies for success in the 21st century Metacognition plays a vital role in learning helping students plan evaluate and self assess their progress Research shows that students with strong metacognitive strategies achieve better learning outcomes apply knowledge effectively and persist through academic challenges This book offers evidence based teaching strategies to support the development of self regulated learning and motivation in diverse educational settings It examines teaching behaviour and instructional methods that foster metacognitive growth in both basic and higher education With a particular focus on the South African education landscape it extends research in cognitive developmental and applied psychology Researchers and educators will find practical approaches for integrating metacognition into various disciplines making this book a valuable resource for both undergraduate and graduate education programmes **Resources in Education**, 1986 **Health**

Psychology Mark Tarrant, Martin S. Hagger, 2023-11-29 Health Psychology Revisiting the Classic Studies reflects and expands upon 13 of the most innovative contributions to the field from researchers such as Friedman and Rosenman Marmot Kiecolt Glaser and Ajzen This book will familiarise you with the classic studies spanning a period from the 1950s to 2010s and show you how they continue to apply to the world today Revisiting the Classic Studies is a series of texts that introduces readers to the studies in psychology that changed the way we think about core topics in the discipline today It provokes students to ask more interesting and challenging questions about the field by encouraging a deeper level of engagement both

with the details of the studies themselves and with the nature of their contribution Edited by leading scholars in their field and written by researchers at the cutting edge of these developments the chapters in each text provide details of the original works and their theoretical and empirical impact and then discuss the ways in which thinking and research have advanced in the years since the studies were conducted Mark Tarrant is Professor at the University of Plymouth Martin S Hagger is Professor at the University of California Merced and Finland Distinguished Professor FiDiPro at University of Jyvaskyla

Radio News ,1921 Some issues 1943 July 1948 include separately paged and numbered section called Radio electronic engineering edition called Radionics edition in 1943 **Railroad Gazette** ,1896 **Who's who in American Education**

,1992 Who's who in American Education Robert Cecil Cook,1968 **North West Shelf Project** John Clark,1989

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 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 photocopyable templates and resources for the teacher Physical Science II UNT Physics Dept. University of North Texas Staff,1995-01-01 Everything Science , *Physical Sciences 11* ,2012 **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 for Gr 11 : Physical Science for Grade 11 Theory, Exercises & Practical Investigations (CAPS)** J. M. Lucas,2012 Physical Science ,2009 **Physical Science** ,2010* **Physical Science** ,1981

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