



**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

**N Colangelo**



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**Physical Science** Mr. Rohit Manglik, 2024-07-15 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

**Research in Education** ,1971-12 Resources in Education ,1997 **South Africa Yearbook** ,2009 *The Science Teacher* ,1998 Some issues are accompanied by a CD ROM on a selected topic

**Literacy Is Still Not Enough** Nicky Mohan, Ian Jukes, Ryan L. Schaaf, 2021-01-07 Modern fluencies provide a platform for authentic teaching learning and assessment While reading writing and arithmetic remain important they are no longer enough For learners to thrive they must move beyond traditional literacies to modern fluencies the unconscious mental processes that are learned adapted and applied in the context of real world problems and challenges In this book the authors unpack the fluencies solution information creativity communication collaboration and global citizenship to reflect the relentless social cultural and economic shifts of modern times Practical resources are presented alongside Authentic Unit Plan Exemplars for each fluency Assessment rubric examples Discussion questions Learners today must master an entirely different set of essential skills and knowledge needed to succeed than previous generations This book provides a practical framework for integrating new fluencies into traditional curriculum

Resources in Education ,1997 **Proceedings of the International Conference on Smart Materials, Structures and Systems** ,1999 *Ebook: Adolescence* Steinberg, 2016-04-16 Ebook Adolescence

**Handbook of Effective Inclusive Schools** James McLeskey, Fred Spooner, Bob Algozzine, Nancy, L. Waldron, 2014-05-16 Over the last decade the educational context for students with disabilities has significantly changed primarily as a result of mandates contained in NCLB and IDEA The purpose of this book is to summarize the research literature regarding how students might be provided classrooms and schools that are both inclusive and effective Inclusive schools are defined as places where students with disabilities are valued and active participants in academic and social activities and are given supports that help them succeed Effectiveness is addressed within the current movement toward multi tiered systems of support and evidence based practices that meet the demands of high stakes accountability

Current Index to Journals in Education ,2002 F&S Index United States Annual ,1999 Index Medicus ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

*Cumulated Index Medicus* ,1993 **Comprehensive Dissertation Index, 1861-1972: Education** Xerox University Microfilms, 1973 An Approach to the Development and Assessment of Instruction in Science at Second Grade Level: the Concept of Energy John Andrew Gerald McClelland, 1970

**Common Core State Standards for Literacy in All Subjects** ,2012 **Books in Print** ,1962 **The Interior** ,1913 Issues for Jan 12 1888 Jan 1889 include monthly Magazine supplement

**Comprehensive Dissertation Index** ,1984

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