



**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)**

# Example For Physical Science 2014 Grade 11

**Lorraine Pe Symaco, Martin Hayden**



### **Example For Physical Science 2014 Grade 11:**

**School Science Practical Work in Africa** Umesh Ramnarain, 2020-06-01 School Science Practical Work in Africa presents the scope of research and practice of science practical work in African schools. It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical innovations and research informed practices on school science practical work. The book highlights trends and patterns in the enactment and role of practical work across African countries. Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry based learning which signals a definite paradigm shift from the traditional teacher dominated to a learner centered approach. The book provides empirical research on approaches to practical work contextual factors in the enactment of practical work and professional development in teaching practical work. This book will be of great interest to academics, researchers and post graduate students in the fields of science education and educational policy. *Seeing Science Through the Eyes of Canadian Teachers and Learners* Christine D. Tippett, Todd M. Milford, 2025-05-16 This book showcases current science education research in Canada from Grade 8 to university. It provides a rich portrait of science teaching and learning at the secondary and tertiary levels across content areas and research methodologies. Research contexts include chemistry, oceanography, physics and STEM research approaches include action research, case study, mixed methods and document analysis. Chapters build upon themes that emerged from our previous Springer book *Science Education in Canada 2019* including environmental education, e.g. ocean literacy, place conscious pedagogy, Indigenous perspectives, e.g. water stewardship and assessment, e.g. formative assessment practices and represent a cross section of the current mosaic of science education research in Canada in high school settings and beyond. This book when taken in conjunction with its companion volume *Exploring Elementary Science Teaching and Learning in Canada 2023* enables readers to develop an in depth understanding of current science education research across the country. Although this book reflects a Canadian perspective its themes are of interest to both domestic and international audiences.

**International Handbook on Education in Southeast Asia** Lorraine Pe Symaco, Martin Hayden, 2021-12-23 This International Handbook provides a detailed account of the education systems of 11 Southeast Asian nations including Brunei Darussalam, Cambodia, Indonesia, Lao People's Democratic Republic, Malaysia, Myanmar, the Philippines, Singapore, Thailand, Timor Leste and Vietnam. It presents a systematic sector by sector explanation of how these national education systems deliver educational services and respond to national and international issues and challenges. With 56 chapters, the International Handbook is the region's most comprehensive educational reference source. In the first of its chapters, the editors introduce the regional context and draw attention to the distinctive characteristics of each of the 11 systems. Southeast Asia, representing 8.5% of the world's population, is as dynamic as it is diverse. The International Handbook charts progress and establishes a benchmark for documenting future developments. It also provides a stepping off point for more

detailed investigations of decision making processes and outcomes across the 11 national education systems *Comparison of Mathematics and Physics Education II* Frederik Dilling, Simon F. Kraus, 2022-07-01 Interdisciplinary teaching is considered as one of the main goals of education worldwide At the same time it poses an immense challenge to teachers who have been trained in only one of the combines subjects This is true even for closely related disciplines such as mathematics and physics In this volume practice oriented educational comparisons are made across various topics that are highly relevant in both subjects Furthermore practical examples are presented in the form of lesson plans in which exemplary implementation in class is presented considering both educational perspectives *Creating Stellar Lessons with Digital Tools* Kenneth J. Luterbach, 2022-05-12 *Creating Stellar Lessons with Digital Tools* prepares teachers in training and in service teachers to use technologies for design and development activities with middle and high school students While software open resources handheld devices and other tools hold great potential to enhance learning experiences teachers themselves must model technology use in ways that inspire students to become producers and leaders rather than consumers and followers Featuring concrete applications in social studies English mathematics and science scenarios this book provides pre service and in service teachers with seven paths to creatively integrate and innovate with computational thinking datasets maker spaces visual design media editing and other approaches *World Congress on Medical Physics and Biomedical Engineering, June 7-12, 2015, Toronto, Canada* David A. Jaffray, 2015-07-13 This book presents the proceedings of the IUPESM World Biomedical Engineering and Medical Physics a tri annual high level policy meeting dedicated exclusively to furthering the role of biomedical engineering and medical physics in medicine The book offers papers about emerging issues related to the development and sustainability of the role and impact of medical physicists and biomedical engineers in medicine and healthcare It provides a unique and important forum to secure a coordinated multileveled global response to the need demand and importance of creating and supporting strong academic and clinical teams of biomedical engineers and medical physicists for the benefit of human health Meeting the Challenges to Measurement in an Era of Accountability Henry Braun, 2016-01-29 Under pressure and support from the federal government states have increasingly turned to indicators based on student test scores to evaluate teachers and schools as well as students themselves The focus thus far has been on test scores in those subject areas where there is a sequence of consecutive tests such as in mathematics or English language arts with a focus on grades 4 8 Teachers in these subject areas however constitute less than thirty percent of the teacher workforce in a district Comparatively little has been written about the measurement of achievement in the other grades and subjects This volume seeks to remedy this imbalance by focusing on the assessment of student achievement in a broad range of grade levels and subject areas with particular attention to their use in the evaluation of teachers and schools in all It addresses traditional end of course tests as well as alternative measures such as portfolios exhibitions and student learning objectives In each case issues related to design and development psychometric considerations and validity

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*Introduction to Teaching* Gene E. Hall, Linda F. Quinn, Donna M. Gollnick, 2024-02-19 An ideal text for aspiring teachers the new Fourth Edition of *Introduction to Teaching* thoroughly prepares students to make a difference as teachers presenting first hand stories and evidence based practices while offering a student centered approach to learning

**What Big Data Can Tell Us About the Psychology of Learning and Teaching** Ronnel B. King, Jiesi Guo, Ching Sing Chai, 2022-03-09

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**Advanced Computational Engineering and Experimenting III** Andreas Öchsner, Holm Altenbach, 2014-04-09 Selected peer reviewed papers from the Seventh International Conference on Advanced Computational Engineering and Experimenting ACE X 2013 July 1-4 2013 Madrid Spain

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