



**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 Paper Exemplar Grade 11

**Rachel Sandford**



## Physical Science Paper Exemplar Grade 11:

**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 [Inquiry: The Key to Exemplary Science](#) Robert Yager, 2009-06-17 **Research in Education**, 1971-12 *Resources in Education*, 2001-10 **Catalogue of first editions, and books printed in the fifteenth century [&c.]**. Payne and Foss, 1818 *Webster's New International Dictionary of the English Language* Paul Worthington Carhart, Thomas Albert Knott, William Allan Neilson, 1934 **Introduction to Digital Humanism** Hannes Werthner, Carlo Ghezzi, Jeff Kramer, Julian Nida-Rümelin, Bashar Nuseibeh, Erich Prem, Allison Stanger, 2023-12-20 This open access textbook introduces and defines digital humanism from a diverse range of disciplines Following the 2019 Vienna Manifesto the book calls for a digital humanism that describes analyzes and most importantly influences the complex interplay of technology and humankind for a better society and life fully respecting universal human rights The book is organized in three parts Part I Background provides the multidisciplinary background needed to understand digital humanism in its philosophical cultural technological historical social and economic dimensions The goal is to present the necessary knowledge upon which an effective interdisciplinary discourse on digital humanism can be founded Part II Digital Humanism a System s View focuses on an in depth presentation and discussion of the main digital humanism concerns arising in current digital systems The goal of this part is to make readers aware and sensitive to these issues including e g the control and autonomy of AI systems privacy and security and the role of governance Part III Critical and Societal Issues of Digital Systems delves into critical societal issues raised by advances of digital technologies While the public debate in the past has often focused on them separately especially when they became visible through sensational events the aim here is to shed light on the entire landscape and show their interconnected relationships This includes issues such as AI and ethics fairness and bias privacy and surveillance platform power and democracy This textbook is intended for students teachers and policy makers interested in digital humanism It is designed for stand alone and for complementary courses in computer science or curricula in science engineering humanities and social sciences Each chapter includes questions for students and an annotated reading list to dive deeper into the associated chapter material The book aims to provide readers with as wide an exposure as possible to digital advances and their consequences for humanity It includes constructive ideas and approaches that seek to ensure that our collective digital future is determined through human agency [Bookseller's catalogues](#) Robert Baldock, 1821 [A Catalogue of Books Now Selling at the Prices Affixed to Each Article, by Payne and Foss, Pall Mall](#) Payne & Foss, 1819 *Developing Models in Science Education* J.K. Gilbert, C. Boulter, 2012-12-06 Models and modelling play a central role in the nature of science in its conduct in the accreditation and dissemination of its

outcomes as well as forming a bridge to technology They therefore have an important place in both the formal and informal science education provision made for people of all ages This book is a product of five years collaborative work by eighteen researchers from four countries It addresses four key issues the roles of models in science and their implications for science education the place of models in curricula for major science subjects the ways that models can be presented to are learned about and can be produced by individuals the implications of all these for research and for science teacher education The work draws on insights from the history and philosophy of science cognitive psychology sociology linguistics and classroom research to establish what may be done and what is done The book will be of interest to researchers in science education and to those taking courses of advanced study throughout the world      **Resources in Education** ,1997      Cumulative Author

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**Psychology, Seventh Edition, in Modules** David G. Myers,2004-06      Current ,1884      Exploring Psychology, Sixth Edition in Modules (Spiral) David G. Myers,2004-12-20      Dissertation Abstracts International ,1970

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## **Table of Contents Physical Science Paper Exemplar Grade 11**

1. Understanding the eBook Physical Science Paper Exemplar Grade 11
  - The Rise of Digital Reading Physical Science Paper Exemplar Grade 11
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Paper Exemplar Grade 11
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Physical Science Paper Exemplar Grade 11
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Paper Exemplar Grade 11
  - Personalized Recommendations
  - Physical Science Paper Exemplar Grade 11 User Reviews and Ratings
  - Physical Science Paper Exemplar Grade 11 and Bestseller Lists
5. Accessing Physical Science Paper Exemplar Grade 11 Free and Paid eBooks
  - Physical Science Paper Exemplar Grade 11 Public Domain eBooks
  - Physical Science Paper Exemplar Grade 11 eBook Subscription Services
  - Physical Science Paper Exemplar Grade 11 Budget-Friendly Options
6. Navigating Physical Science Paper Exemplar Grade 11 eBook Formats

- ePub, PDF, MOBI, and More
  - Physical Science Paper Exemplar Grade 11 Compatibility with Devices
  - Physical Science Paper Exemplar Grade 11 Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Physical Science Paper Exemplar Grade 11
    - Highlighting and Note-Taking Physical Science Paper Exemplar Grade 11
    - Interactive Elements Physical Science Paper Exemplar Grade 11
  8. Staying Engaged with Physical Science Paper Exemplar Grade 11
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Physical Science Paper Exemplar Grade 11
  9. Balancing eBooks and Physical Books Physical Science Paper Exemplar Grade 11
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Physical Science Paper Exemplar Grade 11
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Physical Science Paper Exemplar Grade 11
    - Setting Reading Goals Physical Science Paper Exemplar Grade 11
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Physical Science Paper Exemplar Grade 11
    - Fact-Checking eBook Content of Physical Science Paper Exemplar Grade 11
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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