



**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 Science Paper Exemplar Grade 11

Lingsheng Yao



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 **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 *The Century Dictionary and Cyclopedia: Dictionary* William Dwight Whitney, 1904 **Artificial General Intelligence** Ben Goertzel, Matt Iklé, Alexey Potapov, Denis Ponomaryov, 2023-01-13 This book constitutes the refereed proceedings of the 15th International Conference on Artificial General Intelligence AGI 2022 held as a hybrid event in Seattle WA USA in August 2022 The 31 full papers presented in this book were carefully reviewed and selected from 61 submissions The papers cover topics from foundations of AGI to AGI approaches and AGI ethics to the roles of systems biology goal generation and learning systems and so much more Additionally this volume contains 13 posters **The Century Dictionary**, 1889 **The Century Dictionary and Cyclopedia**, 1906 **The Century Dictionary and Cyclopedia: The Century dictionary, ed. by W.D. Whitney**, 1904 The Century Dictionary: The Century dictionary, 1911 *The Century Dictionary and Cyclopedia: The Century dictionary ... prepared under the superintendence of William Dwight Whitney* William Dwight Whitney, Benjamin Eli Smith, 1902 **The Century Dictionary: The Century dictionary** William Dwight Whitney, Benjamin Eli Smith, 1895 **The Century Dictionary and Cyclopedia: The Century dictionary ... prepared under the superintendence of William Dwight Whitney ... rev. & enl. under the superintendence of Benjamin E. Smith**, 1911 **The Century Dictionary and Cyclopedia: The Century dictionary ... prepared under the superintendence of W. D. Whitney** William Dwight Whitney, Benjamin Eli Smith, 1900 **The Century Dictionary and Cyclopedia** William Dwight Whitney, 1895 National Union Catalog, 1958 Includes entries for maps and atlases

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