



**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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JR Anderson



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Resources in Education ,2001-10 **The Academy** ,1886 The Cambridge Review ,1885 **Informatics Education - The Bridge Between Using and Understanding Computers** Roland Mittermeir,2006-10-30 This book constitutes the refereed proceedings of the International Conference on Informatics in Secondary Schools Evolution and Perspectives ISSEP 2006 held in Vilnius Lithuania in November 2006 The 29 revised full papers presented were carefully reviewed and selected from 204 submissions A broad variety of topics related to teaching informatics in secondary schools is addressed **Research in Education** ,1969 *Multi-disciplinary Trends in Artificial Intelligence* Chattrakul Sombattheera,Paul Weng,Jun Pang,2025-02-19 The two volume set LNAI 15431 and 15432 constitutes the refereed proceedings of the 17th International Conference on Multi disciplinary Trends in Artificial Intelligence MIWAI 2024 held in Pattaya Thailand during November 11 15 2024 The 68 full papers presented in these proceedings were carefully reviewed and selected from 147 submissions The papers focus on various topics in AI and its applications such as deep learning machine learning computer vision pattern recognition and natural language processing Academy, with which are Incorporated Literature and the English Review ,1886 **The Engineer** ,1868 **Bulletin of the Atomic Scientists** ,1982-11 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons,2007

From 1857 until the fire of 1871 Alfred Theodore Andreas,1885 **Journal of Education** ,1903 *The Examiner* ,1864

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Moreover the consolidation of wireless communications and radio broadcasting indeed a very modern technology brought the ether into audiences that would otherwise never have heard about such an esoteric entity The ether also played a pivotal role among some artists in the early twentieth century the values of modernism found in the complexities and contradictions of modern physics such as wireless action or wave particle puzzles a fertile ground for the development of new artistic languages in literature as much as in the pictorial and performing arts Essays on the intellectual foundations of Umberto Boccioni s art the linguistic techniques of Lodge and Ernst Mach s considerations on aesthetics and physics witness to the imbricate relationship between the ether and modernism Last but not least the ether played a fundamental part in the resurgence of modern spiritualism in the aftermath of the Great War This book examines the complex array of meanings strategies and milieus that enabled the ether to remain an active part in scientific and cultural debates well into the 1930s but not beyond This portrait may be easily regarded as the swan song of an epistemic object that was soon to fade away as shown by Paul Dirac s unsuccessful attempt to resuscitate some kind of aether in 1951 with which this book finishes

Funk & Wagnalls New Standard Dictionary of the English Language ,1940

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