



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 Exemplar 2013 Grd11

Bill W. Tillery



Physical Science Exemplar 2013 Grd11:

Physical Science Denise Eby, Robert B. Horton, 1986 Materials for teaching physical science to grades 7 8 students The teacher s edition comes with annotations and teaching suggestions on each page The teacher s resource book contains study aids laboratory and skills manual and answer keys **Physical Science** Denise Eby, Robert B. Horton, Macmillan Publishing Company, 1988 **Physical Science** Bill Tillery, 2011-01-14 Physical Science Ninth Edition is a straightforward easy to read but substantial introduction to the fundamental behavior of matter and energy It is intended to serve the needs of non science majors who are required to complete one or more physical science courses It offers exceptional straight forward writing complemented with useful pedagogical tools Physical Science introduces basic concepts and key ideas while providing opportunities for students to learn reasoning skills and a new way of thinking about their environment No prior work in science is assumed The text offers students complete coverage of the physical sciences with a level of explanation and detail appropriate for all students The sequence of chapters in Physical Science is flexible and the instructor can determine topic sequence and depth of coverage as needed The materials are also designed to support a conceptual approach or a combined conceptual and problem solving approach Along with the accompanying laboratory manual the text contains enough material for the instructor to select a sequence for a two semester course It can also serve as a text in a one semester physics and chemistry course Physical Science Bill W. Tillery, 2006-05 Serving as an introduction to the fundamental behavior of matter and energy this seventh edition is intended to serve the needs of non science majors It offers students complete coverage of the physical sciences It can also serve as a text in a one semester physics and chemistry course **Oklahoma Physical Science** , 2016 An Introduction to Physical Science James T. Shipman, 2000-01-01 **Holt Physical Science** William L. Ramsey, 1978 Introductory Physical Science Pearson Education Canada, Prentice Hall Regents, 1967-11-30 **Glencoe Science** , 2007 **Physical Science** Edunetics Staff, Principles of Physical Science Francis T. Bonner, Melba Phillips, 1952 An Approach to Physical Science Physical Science for Non-Science Students Project, 1966 **Physical Science** Silver Burdett & Ginn (Firm), 1990 Physical Science , 2005

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