



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 Ncs Grade 11 2012

Tao Wei



Physical Science Ncs Grade 11 2012:

Science Education and Curriculum in South Africa Oscar Koopman, 2016-11-01 This book explores the impact of the socio historical political and economic environment in South Africa both during and after Apartheid During this time the South African education system demonstrated an interest in a specific type of knowledge which Koopman refers to as a science of government This science of government leaves the learners with a blurred understanding of science that is disconnected from external nature and human nature and is presented as a series of abstract concepts and definitions The book also investigates the dialectical tensions between the science curriculum and the role of the teacher as an active implementer of the curriculum The book draws on the work of various phenomenological scholars namely Edmund Husserl Martin Heidegger Merleau Ponty and Max van Manen to discuss these tensions

The Age of STEM Brigid Freeman, Simon Marginson, Russell Tytler, 2014-10-24 Across the world STEM learning and work in Science Technology Engineering and Mathematics has taken central importance in education and the economy in a way that few other disciplines have STEM competence has become seen as key to higher productivity technological adaptation and research based innovation No area of educational provision has a greater current importance than the STEM disciplines yet there is a surprising dearth of comprehensive and world wide information about STEM policy participation programs and practice The Age of STEM is a state of the art survey of the global trends and major country initiatives in STEM It gives an international overview of issues such as STEM strategy and coordination curricula teaching and assessment women in STEM indigenous students research training STEM in the graduate labour markets STEM breadth and STEM depth The individual chapters give comparative international analysis as well as a global overview particularly focusing on the growing number of policies and practices in mobilising and developing talent in the STEM fields The book will be of particular interest to anyone involved in educational policy those in education management and leaders in both schooling and tertiary education It will have a wider resonance among practitioners in the STEM disciplines particularly at university level and for those interested in contemporary public policy

Annual Performance Plan Mpumalanga (South Africa). Department of Education, 2013

South Africa Yearbook, 2009

Annual Report Mpumalanga (South Africa). Department of Education, 2017

Transformation Audit 2011 Jan Hofmeyr, 2012-03-07 The 2011 Transformation Audit presents a collection of articles by South African thought leaders which asks how the country can set goals and achieve them in a hostile global climate that threatens developmental gains that have been painstakingly achieved For nearly two decades South Africans have conducted exhaustive analyses of the country s challenges embarked on bold scenario exercises and more recently produced forward looking strategies aimed at addressing these challenges The most eminent of these in recent years were the Department of Economic Development s New Growth Path and the National Planning Commission s Draft National Development Plan We know now what the problems are and by and large what needs to change to address them Courage is required now to forge consensus to take decisions on strategies

and to start implementing them As in previous years this publication with its slightly different format and appearance seeks to provide analysis and provoke debate on how this might be achieved *Computer-aided Design and Diagnosis Methods for Biomedical Applications* Varun Bajaj,G R Sinha,2021-04-27 Computer aided design CAD plays a key role in improving biomedical systems for various applications It also helps in the detection identification predication analysis and classification of diseases in the management of chronic conditions and in the delivery of health services This book discusses the uses of CAD to solve real world problems and challenges in biomedical systems with the help of appropriate case studies and research simulation results Aiming to overcome the gap between CAD and biomedical science it describes behaviors concepts fundamentals principles case studies and future directions for research including the automatic identification of related disorders using CAD Features Proposes CAD for the study of biomedical signals to understand physiology and to improve healthcare systems ability to diagnose and identify health disorders Presents concepts of CAD for biomedical modalities in different disorders Discusses design and simulation examples issues and challenges Illustrates bio potential signals and their appropriate use in studying different disorders Includes case studies practical examples and research directions Computer Aided Design and Diagnosis Methods for Biometrical Applications is aimed at researchers graduate students in biomedical engineering image processing biomedical technology medical imaging and health informatics

Physical Science , *LearnXtra Physical Sciences* ,2012 *Doc Scientia Physical Sciences. Chemistry* Elma De Vos,Santie Du Plessis,Carlien Fanoy,Doc Scientia Centre,2013 *North West Shelf Project* John Clark,1988 *Physical Sciences* ,2015 *Physical Science II* ,1970 **Oklahoma Physical Science** ,2016 **Physical Science** National Geographic Society (U.S.),Glencoe/McGraw-Hill,2002* *An Introduction to Physical Science* James T. Shipman,2000-01-01

Introductory Physical Science and Physical Science II Introductory Physical Science Group,19?? *Physical Science* Edunetics Staff, **An Approach to Physical Science** Physical Science for Non-Science Students Project,1966

Physical Science BRINK,Benjamin du Preez Brink,R. C. Jones,Sr. Jones, Sr.,1985

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