



**ZIMBABWE SCHOOL EXAMINATIONS COUNCIL**  
General Certificate of Education Advanced Level

**CHEMISTRY**  
PAPER 1

**9189/1**

**NOVEMBER 2014 SESSION**

**2 hours**

Additional materials:

Answer paper  
Data Booklet  
Mathematical tables and/or electronic calculator  
Graph paper

**TIME:** 2 hours

**INSTRUCTIONS TO CANDIDATES**

Write your name, Centre number and candidate number in the spaces provided on the answer paper/answer booklet.

Answer six questions.

Answer two questions from Section A, one question from Section B, two questions from Section C and one other question chosen from any section.

Write your answers on the separate answer paper provided.

If you use more than one sheet of paper, fasten the sheets together.

**INFORMATION FOR CANDIDATES**

The number of marks is given in brackets [ ] at the end of each question or part question.

You are reminded of the need for good English and clear presentation in your answers.

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# Zimsec A Level Chemistry Paper

**Katie Braid, Mike Bossart, Mary Falkner, Gordon Henderson, Emily Howe (Editor of AS/year 1 chemistry), Paul Jordin, Rachel Ward, Sarah Pattison, Sophie Scott, Ben Train (Editor of AS/year 1 chemistry)**

## **Zimsec A Level Chemistry Paper:**

**School Science Practical Work in Africa** Umesh Ramnarain, 2020-06-01 School Science Practical Work in Africa presents the scope of research and practice of science practical work in African schools. It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical innovations and research informed practices on school science practical work. The book highlights trends and patterns in the enactment and role of practical work across African countries. Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry based learning which signals a definite paradigm shift from the traditional teacher dominated to a learner centered approach. The book provides empirical research on approaches to practical work, contextual factors in the enactment of practical work and professional development in teaching practical work. This book will be of great interest to academics, researchers and post graduate students in the fields of science education and educational policy.

**The World of Science Education** Femi S. Otulaja, Meshach B. Ogunniyi, 2017-09-12 Each volume in the 7 volume series The World of Science Education reviews research in a key region of the world. These regions include North America, South and Latin America, Asia, Australia and New Zealand, Europe and Israel, North Africa and the Middle East and Sub Saharan Africa. The focus of this Handbook is on research in science education in mostly former British colonies in Sub Saharan Africa and the scholarship that most closely support this program. The reviews of the research situate what has been accomplished within a given field in Sub Saharan Africa rather than an international context. The purpose therefore is to articulate and exhibit regional networks and trends that produced specific forms of science education. The thrust lies in identifying the roots of research programs and sketching trajectories focusing the changing face of problems and solutions within regional contexts. The approach allows readers to review what has been done and accomplished, what is missing and what might be done next.

**Science Teachers Association of Nigeria** Science Teachers Association of Nigeria. Annual Conference, 2002\* *Proceedings of the ... Annual Conference and ... Conference of CASTME Africa* Science Teachers Association of Nigeria. Conference, 2002 Validating Technological Innovation David Coniam, Peter Falvey, 2016-04-02 This book discusses Hong Kong's use of onscreen marking (OSM) in public examinations. Given that Hong Kong leads the way in OSM innovation, this book has arisen from a recognised need to provide a comprehensive coherent account of the findings of various separate but linked validation studies of onscreen public examinations in Hong Kong. The authors discuss their experience of the validation process demonstrating how high stakes innovation should be fully validated by a series of research studies in order to satisfy key stakeholders.

*Access of Girls and Women to Scientific, Technical and Vocational Education in Africa* Augustin Mariro, 1999 *Cambridge International AS and A Level Chemistry Workbook with CD-ROM*

Roger Norris, 2016-06-09 Fully revised and updated content matching the Cambridge International AS & A Level Chemistry syllabus 9701. The Cambridge International AS and A Level Chemistry Workbook with CD ROM supports students to hone the

essential skills of handling data evaluating information and problem solving through a varied selection of relevant and engaging exercises and exam style questions The Workbook is endorsed by Cambridge International Examinations for Learner Support Student focused scaffolding is provided at relevant points and gradually reduced as the Workbook progresses to promote confident independent learning Answers to all exercises and exam style questions are provided on the CD ROM for students to use to monitor their own understanding and track their progress through the course Exam Insights for A-Level Chemistry Inderpal Kalsi,2020-09-25

**Cambridge International AS & A Level Chemistry: Exam Success Guide** Philippa Gardom Hulme,Samuel Mao Hua Lee,Ellen Wong,Muhammad Talha,Nicholas Taylor,2021-06-10 The Cambridge International AS A Level Chemistry Exam Success Guide brings clarity and focus to exam preparation with detailed and practical guidance on raising attainment The guide helps students to recap content through easy to digest chunks apply knowledge with targeted revision activities review and reflect on work done and raise their grades with sample answers examiner commentary and exam style practice The Cambridge International AS A Level Chemistry Exam Success Guide is written by Philippa Gardom Hulme an experienced author and former Chemistry teacher Students can benefit from her vast experience and her commitment to doing all she can to support them in achieving their potential in exams Other resources available include a Student Book which offers a rigorous yet accessible approach for covering the whole syllabus and an Enhanced Online Student Book which provides extra digital hotspots including downloadable questions and additional activities These are also available in a great value Print Enhanced Online Student Book Pack

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**A-Level Chemistry** Katie Braid, Mike Bossart, Mary Falkner, Gordon Henderson, Emily Howe (Editor of AS/year 1 chemistry), Paul Jordin, Rachel Ward, Sarah Pattison, Sophie Scott, Ben Train (Editor of AS/year 1 chemistry), 2015

Cambridge International AS/a Level Chemistry Study and Revision Guide Third Edition David Bevan, 2021-11-26

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Norris, Lawrie Ryan, 2011-01-20 Covers all the requirements of the Cambridge International AS and A Level Chemistry syllabus 9701 Written by highly experienced authors Cambridge International AS and A Level Chemistry comprehensively covers the Cambridge syllabus and is now available in both print and e book formats Simple and clear language colourful photos and international examples make this book accessible to students around the world Exam style questions at the end of each chapter reinforce knowledge and skills and offer thorough exam practice The print book includes a Student CD ROM of supplementary materials including test yourself questions study skills guidance animations and advice on the practical examination These supplementary materials with the exception of the animations are also included in the e book version

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