



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

**MATHEMATICS**  
PAPER 4

**9164/4**

**JUNE 2014 SESSION**

**3 hours**

Additional materials:  
Answer paper  
Graph paper  
List of Formulae

**TIME** 3 hours

**INSTRUCTIONS TO CANDIDATES**

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

There is no restriction on the number of questions which you may attempt.

If a numerical answer cannot be given exactly, and the accuracy required is not specified in the question, then in the case of an angle it should be given to the nearest degree, and in other cases it should be given correct to 2 significant figures.

If a numerical value for  $g$  is necessary, take  $g = 9.81 \text{ ms}^{-2}$ .

**INFORMATION FOR CANDIDATES**

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

The total number of marks for this paper is 120.

Within each section of the paper, questions are printed in the order of their mark allocations and candidates are advised, within each section, to attempt questions sequentially.

The use of an electronic calculator is expected, where appropriate.

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

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**This question paper consists of 7 printed pages and 1 blank page.**

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# Zimsec A Level Mathematics Paper 4

**Michael Hoelscher**



## **Zimsec A Level Mathematics Paper 4:**

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.

**Global Perspectives on Teacher Performance Improvement** Al-Mahdi, Osama, Purinton, Ted, 2022-02-04 In service teacher professional development is central to most empirical conceptions of educational quality. As the techniques and strategies for educational reform have spread rapidly throughout the world, teacher professional development practices have been borrowed across borders. It is important to study the global sharing of information on teacher professional development. Global Perspectives on Teacher Performance Improvement examines the implementation of proven high quality teacher professional development practices in unique environments around the world. It further explains the power of a globally connected community of teacher quality improvement. Covering topics such as mentoring programs, education technology and education workforce, this book is an essential resource for educational administration and faculty, pre-service teachers, the public education sector, government officials, educators of both K-12 and higher education, researchers and academicians.

**Moto**, 1998 Teacher in Zimbabwe, 2014 **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.

*Maths Matters, Level 4, Module 4, Part 1* Richard Curtis, 1999 Text and Tests 4 O. D. Morris, Paul Cooke (Mathematics teacher), Frances O'Regan, 2023 **Breakthrough to Math** Ann K. U. Tussing, 1983 **Real Math**, 1985 *Teacher's Guide* Stephen S. Willoughby, Carl Bereiter, Open Court Mathematics and Science Curriculum Development Center, Open Court Publishing Company, 1981

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