



**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 Mathematics Paper 2014

**Femi S. Otulaja, Meshach B. Ogunniyi**



### **Zimsec Mathematics Paper 2014:**

*The Routledge Handbook of Disability in Southern Africa* Tsitsi Chataika, 2018-07-27 This comprehensive groundbreaking southern African centred collection spans the breadth of disability research and practice Reputable and emerging scholars together with disability advocates adopt a critical and interdisciplinary stance to prove challenge and shift commonly held social understanding of disability in traditional discourses frontiers and practices in prominent areas such as inter national development disability studies education culture health religion gender sports tourism ICT theatre media housing and legislation This handbook provides a body of interdisciplinary analyses suitable for the development of disability studies in southern Africa Through drawing upon and introducing resources from several disciplines theoretical perspectives and personal narratives from disability activists it reflects on disability and sustainable development in southern Africa It also addresses a clear need to bring together interdisciplinary perspectives and narratives on disability and sustainable development in ways that do not undermine disability politics advanced by disabled people across the world The handbook further acknowledges and builds upon the huge body of literature that understands the social cultural educational psychological economic historical and political facets of the exclusion of disabled people The handbook covers the following broad themes Disability inclusion ICT and sustainable development Access to education from early childhood development up to higher education Disability employment entrepreneurship and community based rehabilitation Religion gender and parenthood Tourism sports and accessibility Compelling narratives from disability activists on societal attitudes toward disability media advocacy accessible housing and social exclusion Thus this much awaited handbook provides students academics practitioners development partners policy makers and activists with an authoritative framework for critical thinking and debates that inform policy and practice in incomparable ways with the view to promoting inclusive and sustainable development

**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

**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

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