



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.

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

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2014 Mathematics A Level Zimsec

**Susan M. Shaw, Nancy Staton
Barbour, Patti Duncan Ph.D., Kryn
Freehling-Burton Ph.D., Jane Nichols**

2014 Mathematics A Level Zimsec:

Beyond the Crises: Zimbabwe's Prospects for Transformation Tendai Murisa, Tendai Chikweche, 2015-12-01 Over the past years few African countries have been the focus of discussions and analyses generating a vast array of literature as much as Zimbabwe. The socioeconomic and political crises since the turn of the century have deeply transformed the country from the ideals of a vibrant freshly independent nation just two decades earlier. These transformations have necessitated the call for the restructuring of Zimbabwean society, polity and economy. But this literature remains exclusively within the realm of academic thinking and theorising with no concerted effort to move beyond this by explicitly drawing out the policy implications. *Beyond the Crises: Zimbabwe's Prospects for Transformation* is a welcome addition to the academic and policy literature with a much broader and all embracing focus in terms of policy interventions. By focusing on different aspects of social and economic justice, Murisa and Chikweche go beyond initiating a broad discussion on these two key pillars of human development with a view to suggesting possible future directions of practical solutions and policy development for the attainment of inclusive social and economic justice for Zimbabweans.

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 Routledge Handbook of Disability in Southern Africa Tsitsi Chataika, 2018-07-27 This comprehensive ground breaking 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 international 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 Women's Lives around the World Susan M. Shaw, Nancy Staton Barbour, Patti Duncan Ph.D., Kryn Freehling-Burton Ph.D., Jane Nichols, 2018-01-04 Providing an in depth look at the lives of women and girls in approximately 150 countries this multivolume reference set offers readers transnational and postcolonial analysis of the many issues that are critical to the success of women and girls For millennia women around the world have shouldered the responsibility of caring for their families But in recent decades women have emerged as a major part of the global workforce balancing careers and family life How did this change happen And how are societies in developing countries responding and adapting to women s newer roles in society This four volume encyclopedia examines the lives of women around the world with coverage that includes the education of girls and teens the key roles women play in their families careers religions and cultures how issues for women intersect with colonialism transnationalism feminism and established norms of power and control Organized geographically each volume presents detailed entries about the lives of women in particular countries Additionally each volume offers sidebars that spotlight topics related to women and girls in specific regions or focus on individual women s lives and contributions Primary source documents include sections of countries constitutions that are relevant to women and girls United Nations resolutions and national resolutions regarding women and girls and religious statements and proclamations about women and girls The organization of the set enables readers to take an in depth look at individual countries as well as to make comparisons across countries **Code-Switching as a Pedagogical Tool in**

Bilingual Classrooms Miriam Chitiga, 2021-11-29 Presenting a mixed methods study conducted in a bilingual mathematics classroom in Zimbabwe this text reveals the semantic pedagogical functions and linguistic forms of code switching during STEM instruction Code Switching as a Pedagogical Tool in Bilingual Classrooms offers a detailed analysis of code switching in the context of educational linguistics and reveals ten major pedagogical techniques which illustrate how teachers use code switches to engage students and provide guidance clarification discipline and recaps during individual and whole class interactions Chapters highlight that code switching can be used in a targeted manner to harness the cognitive potential of bilingual speakers and enhance instruction Ultimately the text identifies implications for teacher education language policy and educational leadership more broadly and demonstrates intersections with key areas including functional critical and cultural literacy This text will benefit researchers academics and educators with an interest in bilingualism applied linguistics and secondary education more broadly Those specifically interested in multicultural education sociolinguistics and

educational policy will also benefit from this book

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