

Candidate Name

Centre Number

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ZIMBABWE SCHOOL EXAMINATIONS COUNCIL
General Certificate of Education Ordinary Level

MATHEMATICS
PAPER 1

4004/1

NOVEMBER 2022 SESSION 2 hours 30 minutes

Candidates answer on the question paper

*Additional materials:
Mathematical Instruments*

Allow candidates 5 minutes to count pages before the examination.

This booklet should not be punched or stapled and pages should not be removed.

Time 2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES

Write your Name, Centre number and Candidate number in the spaces at the top of this page.
Write your centre and candidate number in the box on the top right corner of every page of this paper.

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Answer all questions.

Write your answers in the spaces provided on the question paper using black or blue pens.
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Omission of essential working will result in loss of marks.

Decimal answers which are not exact should be given to three significant figures unless stated otherwise.

Mathematical tables, slide rules and calculators should not be brought into the examination room.

INFORMATION FOR CANDIDATES

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

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2014 Maths Form 4 Zimsec Syllabus

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STEM Education in Poverty Brantina Chirinda, Gladys Sunzuma, Perkins Muredzi, 2025-07-15 This book is about Science Technology Engineering and Mathematics STEM education in poverty and the lessons we learn from Zimbabwe The world is driving towards the fourth Industrial Revolution 4IR where economic growth has been attributed to STEM education STEM education is vital in this era where both developed and developing countries are undergo rapid changes Globally STEM education has been practised differently in schools and universities University programs new school curricula instructional methods extracurricular programs and professional development programs for in service teachers have been created to cater to STEM subjects STEM education is envisioned to produce critical thinkers inventors creators problem solvers innovators and professionals who will solve the world s ever changing challenges including inequity food insecurity climate change inequality and poverty STEM is essential to modern education Zimbabwe has faced significant economic challenges but has made remarkable strides in STEM education By examining the successes and challenges of STEM education in Zimbabwe we can learn valuable lessons about improving STEM education in underserved communities This book contributes to the international debate surrounding the optimal STEM education for students in underserved schools It incorporates detailed accounts of STEM education in Zimbabwe schools shedding light on the challenges students and educators face in impoverished areas In Zimbabwe STEM education faces significant challenges such as materials and facilities pedagogy policy reform access and relevance Some of the main issues highlighted in this book are the need for more resources including funding teaching materials and adequate laboratories Effective STEM pedagogy is hampered by an education system that emphasises the curriculum and teacher centred focus instead of focusing on how students can be taught or learn Research has shown that in Zimbabwe STEM teachers must apply inventive pedagogies and suitable learner centred STEM teaching approaches As a result there is a need for more STEM related programs and courses in schools and universities to improve the opportunities for students to pursue careers in these fields Another challenge is the need for more awareness about the opportunities and importance of STEM education and interest in STEM subjects among students which can be attributed to a lack of exposure and understanding of the relevance and importance of these fields in today s world While lack of resources and other challenges hinder effectiveness opportunity lies in promising pathways of policy and practice In Zimbabwe there is a varying degree of success in the implemented competence based curriculum which emphasises inquiry based learning and STEM education Finally there is a need for early exposure to STEM based career opportunities and for more collaboration between the government private sector and educational institutions to address these challenges and promote STEM education in Zimbabwe This book uses Zimbabwe as an example to explore STEM education in poverty By examining the successes and challenges of STEM education in Zimbabwe this book offers valuable insights into how STEM education can be integrated into the curriculum in countries with developing and emerging

economies This book is an essential resource for anyone interested in improving STEM education in underserved communities **Yearbook of International Organizations 2013-2014 (Volumes 1a-1b)** Union Of International Associations, Union of International Associations, 2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events Syllabus Mathematics Form 4, Ordinary and Credit Clemenceau Jules Schuller, Eric Thomas Welsh, T. E. B. Healey, 1967 *Mastering Mathematics* R. H. Darke, K. P. Kelly, 1966 Key Stage 4 GCSE Mathematics Northern Ireland Council for the Curriculum, Examinations and Assessment, 1997* Syllabus of Math 4 William Fogg Osgood, 1890

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