

Candidate Name

Centre Number

Candidate Number



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.

Check that all the pages are in the booklet and ask the invigilator for a replacement if there are duplicate or missing pages.

Answer all questions.

Write your answers in the spaces provided on the question paper using black or blue pens.
If working is needed for any question, it must be shown in the space below that question.
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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David Coniam, Peter Falvey



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History of Mathematics in Africa: 1986-1999 Paulus Gerdes,Ahmed Djebbar,2011 **The Zimbabwe Science News** ,1999 *Mapping research and innovation in the Republic of Zimbabwe* Lemarchand, Guillermo A.,Schneegans, Susan,2014-08-11 *A Century of Science and Technology* ,1999 *Moto* ,2001 **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 **Resources in Education** ,2001 [Bibliographic Guide to Government Publications 2001](#) GK Hall,Thomson Gale,2002-08 **Christianity in Africa and the African Diaspora** Afe Adogame,Roswith Gerloff,Klaus Hock,2008-11-13 The rapid development of African Christianity and its offshoots in the Diaspora is rooted in colonial history and resistance to oppression exploitation and slavery Christianity in Africa and the African Diaspora offers new resources for the interpretation and analysis of African Christian movements It draws attention to a number of key issues including the translatability of the Christian faith the process of contextualization in various cultures the place and role of indigenous agencies the global impact of contemporary African Christian expressions its influence on ecumenical relations and inter religious encounters and its way of shaping new religious identities and landscapes in response to power relations and artificial boundaries Topics covered include the concept of diaspora deconstructing colonial mission conversion African cosmologies African retentions female leadership dynamics liberation theology a new discourse around HIV AIDS transnational religious networks pentecostal charismatic movements charismatic renewal within former mission churches dynamics of reverse mission outreach via cyberspace specific studies on Anglican Baptist Adventist and Kimbanguist missions and the need for intercultural and interdenominational bridge building **Science Education Research and Practice in Asia** Mei-Hung Chiu,2016-06-10 This book discusses the scope of science education research and practice in Asia It is divided into five sections the first consists of nine chapters providing overviews of science education in Asia China Lebanon Macau Malaysia Mongolia Oman Singapore Taiwan and Thailand The second section offers chapters on content analysis of research articles while the third includes three chapters on assessment and curriculum The fourth section includes four chapters on innovative technology in science education and the fifth section consists of four chapters on professional development and informal learning Each section also has additional chapters providing specific comments on the content This collection of works provides readers with a starting point to better understand the current state of science education in Asia

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