



ZIMBABWE SCHOOL EXAMINATIONS COUNCIL
General Certificate of Education Ordinary Level

MATHEMATICS

4004/2

PAPER 2

NOVEMBER 2019 SESSION

2 hours 30 minutes

Candidates answer on the question paper

Additional materials:

Mathematical instruments

Mathematical tables

Electronic Calculator

Graph paper (if needed)

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 in Section A and **any four** questions from Section B.

Write your answers in the spaces provided on the question paper using **black** or **blue** pens.

If working is needed in 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 correct to three significant figures unless stated otherwise.

Decimal answers in degrees should be given correct to one decimal place.

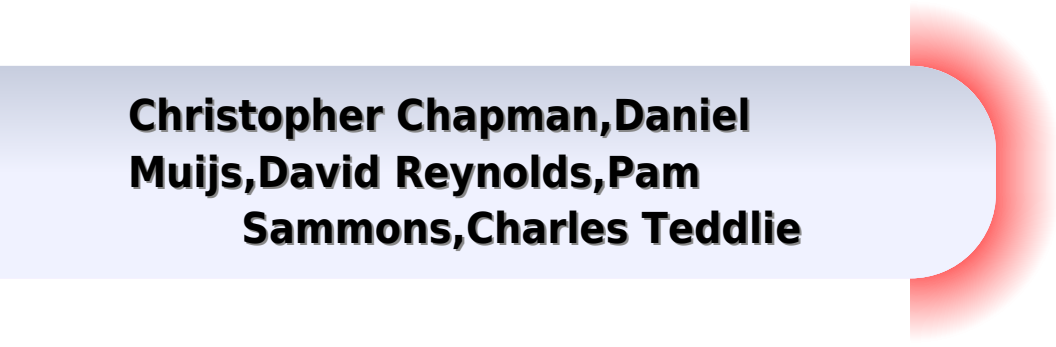
INFORMATION FOR CANDIDATES

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

Mathematical tables and Electronic calculators may be used to evaluate explicit numerical expressions

O Level Mathematics Paper 2 November 2014 Zimsec

**Christopher Chapman, Daniel
Muijs, David Reynolds, Pam
Sammons, Charles Teddlie**



O Level Mathematics Paper 2 November 2014 Zimsec:

The Routledge International Handbook of Educational Effectiveness and Improvement Christopher Chapman, Daniel Muijs, David Reynolds, Pam Sammons, Charles Teddlie, 2015-08-14 The International Handbook of Educational Effectiveness and Improvement draws together leading academics and researchers in the field to reflect on the history traditions and the most recent developments in this dynamic and influential field This handbook provides a comprehensive overview of the foundations of the field the evolution of educational effectiveness theory and methodology the links with other research disciplines the links between policy and practice In conclusion the handbook sets out a new agenda for future educational effectiveness research This handbook is an essential resource for those interested in the effectiveness of educational systems organisations and classrooms It offers academics researchers students and policy makers new insights into the latest thinking and evidence about educational effectiveness

Drawing for Science Education Phyllis Katz, 2017-03-23 This book argues for the essential use of drawing as a tool for science teaching and learning The authors are working in schools universities and continual science learning CSL settings around the world They have written of their experiences using a variety of prompts to encourage people to take pen to paper and draw their thinking sometimes direct observation and in other instances their memories The result is a collection of research and essays that offer theory techniques outcomes and models for the reader Young children have provided evidence of the perceptions that they have accumulated from families and the media before they reach classrooms Secondary students describe their ideas of chemistry and physics Teacher educators use drawings to consider the progress of their undergraduates understanding of science teaching and even their moral ethical responses to teaching about climate change Museum visitors have drawn their understanding of the physics of how exhibit sounds are transmitted A physician explains how the history of drawing has been a critical tool to medical education and doctor patient communications Each chapter contains samples insights and where applicable analysis techniques The chapters in this book should be helpful to researchers and teachers alike across the teaching and learning continuum The sections are divided by the kinds of activities for which drawing has historically been used in science education An instance of observation Audubon Linnaeus A process how plants grow over time what happens when chemicals combine Conceptions of what science is and who does it Images of identity development in science teaching and learning

The book delves into O Level Mathematics Paper 2 November 2014 Zimsec. O Level Mathematics Paper 2 November 2014 Zimsec is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into O Level Mathematics Paper 2 November 2014 Zimsec, encompassing both the fundamentals and more intricate discussions.

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