



**ZIMBABWE SCHOOL EXAMINATIONS COUNCIL**  
General Certificate of Education Advanced Level

**FURTHER MATHEMATICS**  
PAPER 2

**9187/2**

**NOVEMBER 2015 SESSION**

**3 hours**

Additional materials:

Answer paper  
Graph paper  
List of Formulae  
Scientific calculator

**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 a scientific 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 6 printed pages and 2 blank pages.**

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# Zimsec Further Maths

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## **Zimsec Further Maths:**

**GCE O Level Examination Past Papers with Answer Guides: Maths India Edition** Cambridge International Examinations, 2004-03-03 These collections of the official past papers of the GCE O Level Examinations from the University of Cambridge International Examinations has been developed for students of GCE O level These books will act as tools for preparation and revision for students These books have an edited Answer Guide for each paper based on the marks scheme written by CIE Principal Report of the Presidential Commission of Inquiry Into Education and Training Zimbabwe. Presidential Commission on Education and Training in Zimbabwe, 1999 *Moto*, 1998 **Zimbabwe Journal of Educational Research**, 2005 *New Leaders, New Dawns?* Chris Brown, David Moore, Blair Rutherford, 2022-06-17 In late 2017 and early 2018 South Africa and Zimbabwe both experienced rapid and unexpected political transitions In Zimbabwe Robert Mugabe the only leader the country had ever known was replaced in a soft coup by his erstwhile vice president Emmerson Mnangagwa Over a twelve day period in February 2018 South African president Jacob Zuma was prematurely forced from office by his former deputy president Cyril Ramaphosa The widespread popular rejoicing that accompanied their arrival compounded the shock of these sudden transitions *New Leaders New Dawns* explores these political transitions and the way they were received Contributors consider how the former liberation heroes Mugabe and Zuma could have fallen so low the underlying reasons for their ouster what happened to their liberation movements turned ruling parties and perhaps most importantly what the rise to power of Ramaphosa and Mnangagwa foreshadowed Bringing together fourteen leading international scholars of southern Africa and adopting a political economy framework this volume argues that the changes in leadership are welcome but insufficient While the time had come for Zuma and Mugabe to go there is little in the personal histories or early policy actions of Ramaphosa and Mnangagwa that suggests they will be capable of addressing the profound social economic and political problems both countries face *New Leaders New Dawns* reveals that despite what these new leaders may have promised a new dawn has not yet arrived in southern Africa **Proceedings of a National Workshop on Women, Science, and Technology in Zimbabwe**, 2004 The State, Ideology, and Education Rugano Jonas Zvobgo, 1997 **Handbook of Research on Future of Work and Education: Implications for Curriculum Delivery and Work Design** Ramlall, Sunil, Cross, Ted, Love, Michelle, 2021-10-08 Higher education has changed significantly over time In particular traditional face to face degrees are being revamped in a bid to ensure they stay relevant in the 21st century and are now offered online The transition for many universities to online learning has been painful only exacerbated by the COVID 19 pandemic forcing many in person students to join their virtual peers and professors to learn new technologies and techniques to educate Moreover work has also changed with little doubt as to the impact of digital communication remote work and societal change on the nature of work itself There are arguments to be made for organizations to become more agile flexible entrepreneurial and creative As such work and education are both traversing a

path of immense changes adapting to global trends and consumer preferences The Handbook of Research on Future of Work and Education Implications for Curriculum Delivery and Work Design is a comprehensive reference book that analyzes the realities of higher education today strategies that ensure the success of academic institutions and factors that lead to student success In particular the book addresses essentials of online learning strategies to ensure the success of online degrees and courses effective course development practices key support mechanisms for students and ensuring student success in online degree programs Furthermore the book addresses the future of work preferences of employees and how work can be re designed to create further employee satisfaction engagement and increase productivity In particular the book covers insights that ensure that remote employees feel valued included and are being provided relevant support to thrive in their roles Covering topics such as course development motivating online learners and virtual environments this text is essential for academicians faculty researchers and students globally      Further Mathematics for the Physical Sciences Michael Tinker,Robert Lambourne,2000      Additional Mathematics for O Level Akudziwe Mawere,2021-06-05 This textbook covers comprehensively the Pure Mathematics components of the Additional Mathematics IGCSE O Level syllabi of most examining boards including CIE Edexcel and ZIMSEC It is structured in a way that makes it easier for O Level students to self study the subject within a year There are exercises within and at the end of each chapter A good study companion in the study of O Level Additional Mathematics

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