

Candidate Name

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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.*

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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.

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

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# 2014 Mathematics Papergrade 1november

**David W. Hursh**



## **2014 Mathematics Papergrade 1 november:**

**Effectiveness of teachers' guides in the Global South** Benjamin Piper, Yasmin Sitabkhan, Jessica Mejia, Kellie Betts, 2018-05-10 This report presents the results of RTI International Education's study on teachers' guides across 13 countries and 19 projects. Using quantitative and qualitative methods, we examine how teachers' guides across the projects differ and find substantial variation in the design and structure of the documents. We develop a scripting index so that the scripting levels of the guides can be compared across projects. The impact results of the programs that use teachers' guides show significant impacts on learning outcomes associated with approximately an additional half year of learning, showing that structured teachers' guides contribute to improved learning outcomes. During observations, we find that teachers make a variety of changes in their classroom instruction from how the guides are written, showing that the utilization of structured teachers' guides does not create robotic teachers unable to use their own professional skills to teach children. Unfortunately, many changes that teachers make reduce the amount of group work and interactivity that was described in the guides, suggesting that programs should encourage teachers to more heavily utilize the instructional routines designed in the guide. The report includes a set of research-based guidelines that material developers can use to develop teachers' guides that will support effective instructional practices and help improve learning outcomes. The key takeaway from the report is that structured teachers' guides improve learning outcomes, but that overly scripted teachers' guides are somewhat less effective than simplified teachers' guides that give specific guidance to the teacher but are not written word for word for each lesson in the guide. *Psychological and Pedagogical Considerations in Digital Textbook Use and Development* Railean, Elena, 2015-04-30 This book offers balanced coverage of the technological solutions that contribute to the design of digital textbooks and contribute to achieving learning objectives, offering an emphasis on assessment mechanisms and learning theory. Balancing the Tension between Digital Technologies and Learning Sciences Dirk Ifenthaler, Demetrios G. Sampson, Pedro Isaías, 2021-02-16 This volume focuses on the implications of digital technologies for educators and educational decision makers that is not widely represented in the literature. While there are many volumes on how one might integrate a particular technology, there are no volumes on how digital technologies can or should be exploited to address the needs and propel the benefits of large-scale teaching, learning, and assessment. Instructional Practices with and without Empirical Validity Bryan G. Cook, Melody Tankersley, Timothy J. Landrum, 2016-07-06 It is important for stakeholders to be aware of both practices supported as effective as well as ineffective for students with learning and behavioral disabilities in order to provide instruction that results in improved learner outcomes in critical areas of education. **Spectrum Language Arts and Math, Grade 1** Spectrum, 2015-03-02 Spectrum R Language Arts and Math Common Core Edition for Grade 1 helps parents understand Common Core standards and helps students master essential Common Core skills. Engaging practice pages and sturdy flash cards help students with long vowels, sentences, vocabulary, place value, telling time.

and more Spectrum R Language Arts and Math Common Core Edition helps take the mystery out of current academic standards for busy parents This unique resource for kindergarten to grade 5 provides easy to understand overviews of Common Core learning standards for each grade level Each title includes more than 100 skill building practice pages and more than 100 sturdy cut apart flash cards The handy cards make it easy to review important skills quickly at home or on the go You will find all of the focused standards based practice your child needs to succeed at school this year      *Global Action on School Library Guidelines* Barbara A. Schultz-Jones,Dianne Oberg,2015-06-16 This book celebrates the new IFLA School Library Guidelines and shows how the Guidelines can be used in improving school library services Each chapter describes innovative initiatives for developing implementing and promoting school library guidelines The book provides inspiration and guidance for the creation of national school library standards and for the development and use of standards and guidelines to change school library practice to define the teaching role of school librarians to guide the initial preparation of school librarians and to advocate for school library services Contributors to the book come from around the world Australia Canada Ethiopia France Malaysia Norway Poland Portugal Spain Sweden and the United States Their work illustrates the shared commitment of school librarians around the world to teaching and learning for all as envisioned in the IFLA UNESCO School Library Manifesto      **The Disorder of Mathematics Education** Hauke Straehler-Pohl,Nina Bohlmann,Alexandre Pais,2016-08-23 Research within a socio political paradigm or turn has been gradually recognized and institutionalized as an important part of mathematics education This book focuses on the neglected problems tensions and contradictions evoked by this process The authors do this by challenging current regimes of truth about mathematics education by identifying how recent technological developments challenge or suspend contemporary conceptions of mathematics education by critiquing the ideological entanglement of mathematics its education and schooling with capitalism by self reflective analyses of researchers impacts on shaping what is and can be perceived as the practice of mathematics education research and by confronting main stream mathematics education with socio political contexts that are usually neglected In this way mathematical rationality becomes contextualized within contemporary society where it reproduces itself through technologies social practices media and other spheres of social life      *The End of Public Schools* David W. Hursh,2015-10-16 The End of Public Schools analyzes the effect of foundations corporations and non governmental organizations on the rise of neoliberal principles in public education By first contextualizing the privatization of education within the context of a larger educational crisis and with particular emphasis on the Gates Foundation and influential state and national politicians it describes how specific policies that limit public control are advanced across all levels Informed by a thorough understanding of issues such as standardized testing teacher tenure and charter schools David Hursh provides a political and pedagogical critique of the current school reform movement as well details about the increasing resistance efforts on the part of parents teachers and the general public      *Helping Children Learn Mathematics* Robert Reys,Mary Lindquist,Diana V.

Lambdin, Nancy L. Smith, Anna Rogers, Audrey Cooke, Sue Bennett, Bronwyn Ewing, John West, 2020-01-21 The third edition of *Reys Helping Children Learn Mathematics* is a practical resource for undergraduate students of primary school teaching Rich in ideas tools and stimulation for lessons during teaching rounds or in the classroom this edition continues to provide a clear understanding of how to navigate the Australian Curriculum with detailed coverage on how to effectively use Information and Communications Technology ICT in the classroom This is a full colour printed textbook with an interactive ebook code included Great self study features include auto graded in situ knowledge check questions video of teachers demonstrating how different maths topics can be taught in the classroom and animated branched chain scenarios are in the e text

**New Digital Technology in Education** Wan Ng, 2015-04-25 This book addresses the issues confronting educators in the integration of digital technologies into their teaching and their students learning Such issues include a skepticism of the added value of technology to educational learning outcomes the perception of the requirement to keep up with the fast pace of technological innovation a lack of knowledge of affordable educational digital tools and a lack of understanding of pedagogical strategies to embrace digital technologies in their teaching This book presents theoretical perspectives of learning and teaching today s digital students with technology and propose a pragmatic and sustainable framework for teachers professional learning to embed digital technologies into their repertoire of teaching strategies in a systematic coherent and comfortable manner so that technology integration becomes an almost effortless pedagogy in their day to day teaching The materials in this book are comprised of original and innovative contributions including empirical data to existing scholarship in this field Examples of pedagogical possibilities that are both new and currently practised across a range of teaching contexts are featured

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