

The Grade 9 Maths ANA – What Can We See After Three Years?

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INTRODUCTION

The Annual National Assessments (ANA) were introduced to address South Africa's poor performance in international mathematics assessments such as TIMSS and SACMEQ. The Grade 9 test was first written in 2012 with a national average of 12.7%. In 2013 the average increased to 13.9% but then dropped to 10.8% in 2014. The overall picture is one of very poor performance with the result that many questions are being asked about the value and purpose of the ANA.

The Department of Basic Education (DBE) identifies three purposes for the ANAs: (1) a measure for the state to gauge improvement in the education system, based on learner performance year-on-year; (2) a diagnostic assessment to identify areas of weakness in learners' performance; and (3) to provide a model of good assessment practice. While these are all important goals, they are not necessarily achievable through a single instrument. However, this is not the focus of our article. Our purpose here is to report on a content analysis of the three ANA papers which we undertook in the first quarter of 2015, paying particular attention to cognitive demand and levels of difficulty. We share our findings on these aspects, as well as on trends that arise as we look across the first three years of the Grade 9 Maths ANA.

CLASSIFICATION OF ITEMS

Classification of items into taxonomies is never a simple matter, and there are no perfect taxonomies. We have attempted to use existing taxonomies with which teachers are familiar but we are not suggesting that these are definitive levels or categories.

LEVELS OF COGNITIVE DEMAND

Levels of cognitive demand describe the nature of the item in terms of the mathematical demand. An early Grade 9 ANA document (DBE, 2011) distinguishes three levels: knowledge of basic concepts, application of concepts and non-routine problem solving. However, we chose to work with the four levels of cognitive demand as described in the CAPS document since these are the levels that teachers work with regularly.

- *Knowledge* – requires straight recall, use of mathematical facts, identification and direct use of formulae.
- *Routine procedure* – well-rehearsed and familiar algorithms, simple calculations that may involve several steps, use of formulae requiring change of subject.
- *Complex procedure* – several calculations that are not all of the same type, complex calculations, route to solution is not entirely obvious, connecting representations, developing proof, requires conceptual understanding.
- *Problem solving* – unseen, non-routine problems, route to solution is not suggested, also requires conceptual understanding.

Grade 9 Ana Maths 2014

Yasemin Besen-Cassino



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International Handbook of Teacher Education John Loughran, Mary Lynn Hamilton, 2016-05-04 The International Handbooks of Teacher Education cover major issues in the field through chapters that offer detailed literature reviews designed to help readers to understand the history issues and research developments across those topics most relevant to the field of teacher education from an international perspective This volume is divided into two sections The organisation and structure of teacher education and knowledge and practice of teacher education The first section explores the complexities of teacher education including the critical components of preparing teachers for teaching and various aspects of teaching and teacher education that create tensions and strains The second examines the knowledge and practice of teacher education including the critical components of teachers professional knowledge the pedagogy of teacher education and their interrelationships and delves into what we know and why it matters in teacher education

Merging Numeracy with Literacy Practices for Equity in Multilingual Early Year Settings Robyn Jorgensen, Mellony Graven, 2022-01-01 This book draws on both in and out of school literacy practices with teachers and families to enhance the numeracy of early learners It provides highly illustrative exemplars targeted for learners up to approximately eight years of age whose home language differs from the language of instruction It identifies the challenges faced by these learners and their families and shares ways of building both literacy and numeracy skills for some of the vulnerable learners nationally and internationally The book shares the outcomes and strategies for teaching mathematics to early years learners and highlights the importance of literacy practices for learners for whom the language of instruction is different from their home language Readers will gain a practical sense of how to create contexts classrooms and practices to scaffold these learners to build robust understandings of mathematics

Improving Primary Mathematics Education, Teaching and Learning Mellony Graven, Hamsa Venkat, 2017-01-19 This book focuses on how to improve the teaching and learning of primary level mathematics education within resource constrained contexts It builds on two large numeracy projects within South Africa which speak to broader global concerns and highlight how research and development not only enables one to meet ethical imperatives but also explore how further interventions can be developed Teacher and research communities must work together to create mutually beneficial relationships and establish a cohesive understanding of the requirements of primary mathematics education

Lessons from the Kalahari Monica Hendricks, 2020-05-05 Lessons from the Kalahari Tracking Teachers Professional Development explores how Northern Cape teachers who were enrolled in a Bachelor of Education in service course responded to three professional development modules specialising in mathematics education English language teaching and Foundation Phase teaching respectively Mainly through fine grained analyses of their classroom practice the studies in this volume demonstrate how these teachers grappled with new content knowledge and pedagogical innovations to improve the quality of teaching in their classrooms The chapters include case studies that range across a variety of

pedagogical topics including mathematics and English teachers classroom practices involvement of parents of Foundation Phase learners and learners autonomous mathematics learning The book makes an original empirically based contribution to the understanding of the challenges confronting primary and secondary school teachers in remote rural parts of Northern Cape province South Africa **Education in a New South Africa** Robert J. Balfour,2015-09-24 A collaborative series with the University of Cambridge Faculty of Education highlighting leading edge research across Teacher Education International Education Reform and Language Education **Annual Report** Mpumalanga (South Africa). Department of Education,2016

Visualisation and Epistemological Access to Mathematics Education in Southern Africa Marc Schäfer,2023-04-27 This book demonstrates that using visualisation processes in mathematics education can help to enhance teaching and learning and bridge the inequality gap that exists between well resourced and under resourced schools in Southern Africa Drawing on classroom research conducted in the Southern African region it examines how epistemological access in a context of gross inequality can be constructively addressed by providing research based solutions and recommendations The book outlines the visualisation process as an integral but often overlooked process of mathematics teaching and learning It goes beyond the traditional understanding of visualisation processes such as picture forming and using tools and considers visualisation processes that are semiotic in nature and includes actions such as gestures in combination with language It adds value to the visualisation in mathematics education research discourse and deliberation in Africa With a unique focus on Southern Africa and open avenues for further research and collaboration in the region it will be a highly relevant reading for researchers academics and post graduate students of mathematics education comparative education and social justice education **Predictive Models for School Leadership and Practices** Amzat, Ismail Hussein,2018-09-07 A successful administrator is one who applies suitable or appropriate leadership styles in various situations or contexts It is crucial to investigate how effective administrators lead their organizations in challenging and difficult times as well as promote the accomplishments of their organization Predictive Models for School Leadership and Practices is an essential reference source that discusses academic administration as well as administrative effectiveness in achieving organizational goals Featuring research on topics such as teacher collaboration school crisis management and ITC integration this book is ideally designed for principals researchers academics educational policymakers and teachers seeking coverage on academic leadership and leadership models **Challenging the Apartheids of Knowledge in Higher Education through Social Innovation** Joana Bezerra,Craig Paterson,Sharli Paphitis,2021-05-12 In order to understand the relationship between social innovation and the reimagining of the knowledge economy necessary to reorient higher education most fully towards the public good we must draw from the experiences of those working on the front lines of change This collection represents diverse voices and disciplines drawing together the critical reflections of academics students and community partners from across South Africa The book seeks to bring together theoretical and practical lessons

about how research methods can be used in socially innovative ways to challenge the apartheid of knowledge in higher education and to promote the democratization of the knowledge economy

Research for Educational Change Jill Adler, Anna Sfard, 2016-06-17 Research for Educational Change presents ways in which educational research can fulfil its commitments to educational practice Focussing its discussion within the context of mathematics education it argues that while research generated insights can have beneficial effects on learning and teaching the question of how these effects are to be generated and sustained is far from evident The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice In the first part of the book four teams of researchers use different methodologies while analysing the same corpus of data collected in a South African mathematics classroom In the second part each of these teams makes a specific proposal about what can be done and how so that its research generated insights have a tangible beneficial impact on what is happening in mathematical classrooms Combining two discourses that of researchers speaking to one another and that of researchers communicating their insights to those responsible for educational practice the book deals with the perennial question of communication between those who study educational processes and those who are directly responsible for teacher education educational research and classroom practices This book will be key reading for postgraduates researchers and academics in education and particularly in the areas of mathematics education education research teacher education and classroom practice It will also appeal to teacher educators practitioners and undergraduate students interested in educational research

Annual Performance Plan Mpumalanga (South Africa). Department of Education, 2016

The Sustainability of Higher Education in Sub-Saharan Africa Peter Neema-Abooki, 2024-07-02 This book delves into the role of higher education as a means of sustainable development in Sub Saharan Africa Contributions from across the region examine the strategies and technological advances available to enable students to deal with an uncertain future and are organised under two key themes Curriculum and Teaching and Higher Education and Innovations The volume brings together theoretical and practical perspectives relating them to international benchmarks while maintaining the specificities of the African context It will be of interest to students and scholars as well as practitioners whose work interrogates higher education quality assurance and sustainable development goals

Education and Youth Today Yasemin Besen-Cassino, 2016-08-02 This volume brings together the most recent and cutting edge research on the understanding of education It focuses on the lived experience of the students in the context of different educational institutions In doing so it unravels layers of inequalities in the understanding of education

The Language Issue in the Teaching of Mathematics in South Africa Lindiwe Tshuma, 2021-01-26 The book is the result of a five year project that culminated within the first three years in doctoral research interrogating language competency for meaningful mathematics instruction at upper primary level conducted at University of Stellenbosch in 2017 and this book in the succeeding two years The initial research project received countrywide coverage in several South

African media outlets including Times Live and Radio 2000

Problem Solving in the Mathematics Classroom Ana

Kuzle, Benjamin Rott, Tatjana Hodnik Cadez, 2016-06-30 Problem solving is a cornerstone of the school mathematics curricula in many countries as it is an essential part of mathematical knowledge and performance Implementation of problem solving in school mathematics is also important for meeting society's needs with respect to work school and life as well as for stimulating the interest and enthusiasm of students Countries such as Finland Germany Hungary and Slovenia have a long tradition of problem solving in school mathematics Each country has faced its own specific challenges when adopting problem solving as a constituent part of school mathematics But through this process they have gained experience and discovered chances for integrating problem solving into mathematics lessons The heart of achieving this mission lies in choosing good mathematical problems Good mathematical problems are those that are not too difficult and not too easy are interesting challenging and mathematically rich They should invite students to conjecture and to explore different strategies support extending their existing knowledge and allow for problem extension In this book the reader will find such rich mathematical problems targeting students at different school levels that can help cultivate a problem solving culture The book provides the coherence and direction from different perspectives that practitioners need when integrating problem solving into their teaching practices and using problem solving to teach mathematics We believe that the processes which accompany problem solving contribute to both the development of students mathematical reasoning and to the development of their sense of autonomy

World Yearbook of Education 2021 Sotiria Grek, Christian Maroy, Antoni Verger, 2020-11-26

Providing a comprehensive introduction to the topic of accountability and datafication in the governance of education the World Yearbook of Education 2021 considers global policy dynamics and policy enactment processes Chapters pay particular attention to the role of international organizations and the private sector in the promotion of performance based accountability PBA in different educational settings and at multiple policy scales Organized into three sections chapters cover the global local construction of accountability and datafication global discourse and national translations of performance based accountability policies and enactments and effects of accountability and datafication including controversies and critical issues With carefully chosen international contributions from around the globe the World Yearbook of Education 2021 is ideal reading for anyone interested in the future of accountability and datafication in the governance of education

Best School in the World Molly Hurd, 2017-04-01

There's a little known school in Halifax that kids are excited to attend every day right through until they graduate It's a place where they absorb real world skills including critical thinking and complex literacy math and second language abilities so that they stick They gather for intense whole school discussions on local issues create art using geometric calculations and dig into the school garden while learning about the biology of the native plant garden all in one typical week Over forty years the Halifax Independent School has developed an approach to education that reflects the ideas of leading educators but follows no set formula It offers parents and educators a

vision of what schools could be like right across the country In this account of the best school in the world readers will find ideas big and small for how Canadian schools could do a better job of engaging challenging and educating their students

Democratic Evaluation and Democracy Donna Podems, 2017-02-01 Democratic evaluation brings a way of thinking about evaluation's role in society and in particular its role in strengthening social justice Yet the reality of applying it and what happens when it is applied particularly outside the West is unclear Set in South Africa a newly formed democracy in Southern Africa the book affords an in depth journey that immerses a reader into the realities of evaluation and its relation to democracy The book starts with the broader introductory chapters that set the scene for more detailed ones which bring thorough insights into national government local government and civil societies experience of evaluation democratic evaluation and their understanding of how it contributes to strengthening democracy or not A teaching case the book concludes by providing guiding questions that encourage reflection discussion and learning that ultimately aims to inform practice and theory

Teaching Reading Comprehension to English Learners in Secondary Schools: A Research-Based Approach Cekiso, Madoda, Olifant, Florence, Mokhtari, Kouider, 2025-04-23 Teaching reading comprehension to English learners ELs in secondary schools presents unique challenges as these students must navigate the complexities of academic texts and the intricacies of language acquisition Effective instruction requires a research based approach that considers the diverse linguistic cultural and cognitive backgrounds of these learners Recent studies highlight the importance of integrating strategies that build both language proficiency and content knowledge essential for helping ELs develop the skills needed to comprehend complex materials Fostering metacognitive awareness through strategies like summarizing questioning and making connections can empower students to become active and strategic readers This approach recognizes the need for a supportive inclusive classroom environment that encourages language development while promoting academic achievement in content areas Further research may help educators provide English learners with the tools to thrive as capable readers in secondary school Teaching Reading Comprehension to English Learners in Secondary School A Research Based Approach explores various aspects of teaching reading comprehension to English Second Language ESL learners in secondary schools It examines current challenges and evidence based strategies in reading comprehension This book covers topics such as language learning reading strategies and teacher training and is a useful resource for academicians researchers and scientists

The Education Triple Cocktail Brahm Fleisch, 2018-08-15 The Education Triple Cocktail brings together rigorous quantitative and qualitative research on a new approach to improving foundational teaching and learning for schoolchildren living in working class poor and remote rural communities in resource constrained systems like South Africa At the core of this book is the theory and evidence for a powerful new interlocking and mutually reinforcing change model Inspired by the AIDS treatment story the three pronged approach of structured daily lesson plans appropriate and high quality educational materials and one on one instructional coaching to help teachers transform their instructional practices

in early grade classrooms shows that it will improve learning outcomes For education systems defined by low levels of early grade learning and profoundly unequal outcomes The Education Triple Cocktail offers a theoretically informed evidence based way forward This book will be of immense use to teachers students of Education policymakers and parents

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