

#### ANNUAL NATIONAL ASSESSMENT 2014 GRADE 9 MATHEMATICS

#### MEMORANDUM

#### This memorandum consists of 9 pages.

#### Important Information:

- This is a marking guideline. In instances where learners have used different but mathematically sound strategies to solve the problems they (seamers) should be credited.
- Unless stated otherwise, learners who give a correct answer only, should be awarded full marks.
- Underline errors committed by learners and apply Consistent Accuracy (CA) marking.
- Do not penalise learners if units of measurement are omitted.

K/EY					
MI	Method mark				
CA	Consistent Accuracy mark				
A	Accuracy mark				

#### QUESTION 1

1.	31010	D	1.2	C	1.3	В	1,4	A	1.5	D	Give 1 mark for each contect answer.	
	1.6	С	1.7	С	1.8	D	1.0	В	1.10	D		Luca

#### QUESTION 2

2.1	2.07 × 10 <sup>-7</sup> ✓ A	Answer: 1 mark		
2.2.1	<sup>3</sup> √73 - (-3) <sup>3</sup> = <sup>1</sup> √73 - 9 = <sup>1</sup> √64 ✓ M = 4✓ CA	Galovistion: 1 mark Answer: 1 mark (Answer only: 1 mark) (If the answer is a decimal number, no mark)	(2)	
2.2.2	√100 < √110 < √121 ✓ M 10 < √110 < 11 ✓ A	√100 and √121: 1 mark Answer: 1 mark (Answer only: 1 mark)	(2)	
2.23	= 3 × 5 <sup>2</sup> ✓ M = 75 ✓ CA	Applying exponential law: 1 mark Answer: 1 mark (Answer only: 1 mark)	(2)	
23	1.03 × 10 <sup>-1</sup> + 3.8 × 10 <sup>-3</sup> = 0.0103 + 0.0038 <b>✓M</b> = 0.0141 <b>✓CA</b>	Simplification: 1 mark Answer: 1 mark (Answer only: 1 mark)		
	or = 10 <sup>-2</sup> (1.03 + 0.38) <b>/M</b> or = 10 <sup>-2</sup> (1.41) = 0.0141 <b>/CA</b>	= 10 <sup>-2</sup> (10.3 + 3.8) <b>/M</b> = 10 <sup>-2</sup> (14.1) = 0.0141 <b>/CA</b>	Taking out common factor: 1 mark  Answer: 1 mark (Answer only: 1 mark)	(2)
		-		[19]

# Ana Maths 2014 Grade 9

Liviu Ornea

#### Ana Maths 2014 Grade 9:

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 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

Teaching and Learning Secondary School Mathematics Ann Kajander, Jennifer Holm, Egan J Chernoff, 2018-10-24 This volume brings together recent research and commentary in secondary school mathematics from a breadth of contemporary Canadian and International researchers and educators It is both representative of mathematics education generally as well as unique to the particular geography and culture of Canada The chapters address topics of broad applicability such as technology in learning mathematics recent interest in social justice contexts in the learning of mathematics as well as Indigenous education The voices of classroom practitioners the group ultimately responsible for implementing this new vision of mathematics teaching and learning are not forgotten Each section includes a chapter written by a classroom teacher making this volume unique in its approach We have much to learn from one another and this volume takes the stance that the development of a united vision supported by both research and professional dialog provides the first step **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 **Visualisation and Epistemological Access to Mathematics Education** build robust understandings of mathematics 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 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 apartheids of knowledge in higher education and to promote the democratization of the knowledge economy 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 **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 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 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 perenial 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 Report** Mpumalanga (South Africa). Department of Education, 2016 "Dig where you stand" 4 Kristín Bjarnadóttir, Fulvia Furinghetti, Marta Menghini, Johan Prytz, Gert Schubring, 2017-07-31 The Fourth International Conference on the History of Mathematics Education was hosted by Academy of Sciences and University of Turin Italy About 50 senior and junior researchers from 16 countries met for four days to talk about one topic the history of mathematics education In total 44 contributions were presented The themes were Ideas people and movements Transmission of ideas Teacher education Geometry and textbooks Textbooks changes and origins Curriculum and reform Teaching in special institutions and Teaching of geometry In this volume you find 28 of the papers all of them peer reviewed Since the first international conference on the history of mathematics education the aim has been to develop this area of research to attract more researchers and provide new insights that stimulate further digging It is therefore very pleasing that so many new young researchers joined the

conference presenting results from ongoing or recently finished PhD projects This makes us confident about a prosperous future of this research area as we look forward to the Fifth International Conference on the History of Mathematics Education to be held in Utrecht the Netherlands in September 2017 Previous international conferences on the history of mathematics education 2009 in Gar ab r Iceland 2011 in Lisbon Portugal 2013 in Uppsala Sweden **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

Lessons Learned from Research on Mathematics Curriculum Denisse R Thompson, Mary Ann Huntley, Christine Suurtamm, 2024-09-01 This volume focuses on research related to mathematics curriculum But rather than focusing on results of research it focuses on lessons learned about conducting research on curriculum whether about design and development analysis of curriculum in the form of official standards or textbook instantiations teacher intentions related to curriculum implementation or actual classroom enactment For scholars interested in curriculum research the volume offers lessons about conducting curriculum research that have been learned by others engaged in such work including frameworks tools and techniques as well as challenges and issues faced with solutions to address them Sharing lessons from authors of different countries strengthens the broader mathematics research community and provides insights that can help researchers make important strides forward in research on mathematics curriculum 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 Annual Performance Plan Mpumalanga (South Africa). Department of Education, 2016 Radio 2000 **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 **Real and Complex Geometry** Liviu Ornea, 2025-08-02 The book covers a wide area of hot subjects in real and complex differential geometry such as conformal geometry special holonomy Sasakian geometry K hler and non K hler metrics classification of compact complex surfaces Einstein metrics bi Hermitian geometry non integrable almost complex structures etc All of these are rather close to Paul Gauduchon's themes and influential results in the past fifty years. The reader will find fifteen papers a few surveys but the majority containing new and exciting results The book thus gives an idea of the present research interests of some of the best experts today in real and complex differential geometry including Vestislav Apostolov Florin Belgun Charles Boyer Georges Dloussky Anna Fino Gueo Grantcharov Claude LeBrun Andrei Moroianu Massimiliano Pontecorvo Simon Salamon Andrew <u>International Perspectives on Mathematics Curriculum</u> Swann Adriano Tomassini Valentino Tosatti and Misha Verbitsky Denisse R Thompson, Mary Ann Huntley, Christine Suurtamm, 2018-01-01 Curriculum can be defined in a variety of ways It might be viewed as a body of knowledge a product or a process Curricula can differ as they are conceptualized from various theoretical perspectives to address the needs of teachers students and the context of schooling One reason to study curriculum is to reveal the expectations processes and outcomes of students school learning experiences that are situated in different cultural and system contexts further studies of curriculum practices and changes are much needed to help ensure the success of educational reforms in the different cultural and system contexts Kulm Li 2009 p 709 This volume highlights international perspectives on curriculum and aims to broaden the wider mathematics education community s understandings of mathematics curriculum through viewing a variety of ways that curricula are developed understood and implemented in different jurisdictions countries Within this volume we define curriculum broadly as the set of mathematics standards or outcomes the messages inherent in mathematics curriculum documents and resources how these standards are understood by a variety of stakeholders and how they are enacted in classrooms The focus is on the written implied and enacted curriculum in various educational settings throughout the world Nonlocal Gravity Bahram Mashhoon, 2017 Relativity theory assumes locality without accounting for the observer s past history This work introduces nonlocality or history dependence into relativity theory Inertia and gravitation are deeply tied suggesting gravity may be nonlocal The gravitational memory of past events must then be taken into account

Unveiling the Magic of Words: A Overview of "Ana Maths 2014 Grade 9"

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