

MATHEMATICAL LITERACY

Dear Grade 12 Mathematical Literacy learner

Mathematical Literacy is intended to equip you with the knowledge and skills you need in dealing with real-life problems. The skills and knowledge you will master are drawn from the pure Mathematical knowledge you learned in previous grades. Real-life problems you may encounter are organised into FIVE topics, namely:

- finance
- measurement
- maps, plans and other representations of the physical world
- data handling and
- probability.

Subject Requirements

- ☑ A textbook and exam study guide
- ☑ A calculator

Content Checklist

The checklist below gives a summary of content you will cover in each of the topics.

1. Finance

- ☑ Financial documents
- ☑ Tariff systems
- ☑ Income/expenditure, profit/loss, budgets
- ☑ Cost price and selling price
- ☑ Break-even analysis
- ☑ Interest
- ☑ Banking, loans and investments
- ☑ Inflation
- ☑ Taxation
- ☑ Exchange rates

2. Measurement

- ☑ Unit conversions
- ☑ Length
- ☑ Weight
- ☑ Perimeter
- ☑ Area
- ☑ Volume
- ☑ Temperature
- ☑ Time

3. Maps, plans and other representations of the physical world

- ☑ Maps
- ☑ Scale
- ☑ Plans
- ☑ Models

4. Data handling

- ☑ Data collection
- ☑ Data classification
- ☑ Data organisation
- ☑ Summarising data
- ☑ Data representation
- ☑ Interpret and analyse data

5. Probability

- ☑ Expressions of probability
- ☑ Prediction
- ☑ Probability of simple events
- ☑ Probability of compound events

Assessment

Throughout the year you will complete a minimum of SEVEN assessment tasks. Marks obtained in these tasks make up your final school-based assessment (SBA) mark. The SBA mark makes 25% of your final mark in the subject. The remaining 75% comes from your external exam mark.

TERM	GRADE 12	
1	Investigation	Minimum of 50 marks for each task
	Control Test 1	Minimum of 50 marks
2	Assignment	Minimum of 50 marks
	Paper 1 2 hours (100 marks)	Paper 2 2 hours (100 marks)
3	Control Test	Minimum of 50 marks
	PRELIM EXAMINATION	
	Paper 1 3 hours (750 marks)	Paper 2 3 hours (750 marks)
4	EXTERNAL EXAMINATIONS	
	Paper 1 3 hours (750 marks)	Paper 2 3 hours (750 marks)
Total: SBA + External examination = 400		

Examinations

Mathematical Literacy examination consist of two papers (150 marks each). For both papers, about 30% of questions (45 marks) are all easy questions and test your ability to perform basic mathematical calculations in familiar context. 30% of the remaining questions test your ability to do 2-step or 3-step context-based questions. The rest, 40%, of the questions will test your ability to use mathematical and non-mathematical knowledge to solve problems in both familiar and non-familiar contexts.

Paper 1: The following context are covered in paper 1: Finance, Data and Probability.

Paper 2: The following context are covered in paper 2: Measurement, Maps and Plans and Probability.

PAPER 1	PAPER 2
Finance 60% (±5) Data Handling 35% (±5) Probability 5% Including Growth Charts (CAPS page 65) assesses application of measures of spread in data handling.	Maps, plans and other representation of the physical world 40% (±5) Measurement 55% (±5) Probability 5% Including ±5% (Income, Expenditure, Profit/loss, Income-and-Expenditure statements and Budgets, Cost price and Selling price) where there is direct link to Measurement and Maps and Plans.
Question 1: 30 marks ± 5 marks Level 1 questions from Finance and Data Handling Question 2: Finance Question 3: Data Handling Question 4: Integrated context on Finance and Data Handling Including Growth Charts (CAPS page 65) assesses application of measures of spread in data handling. Question 5: Finance, data handling or integrated question Probability will be examined in the context of one or more of the other questions. Each question can contain more than one context.	Question 1: 30 marks ± 5 marks Level 1 questions from Measurement and Maps, plans Question 2: Maps and plans Question 3: Measurement Question 4: Integrated context on Measurement and Maps and plans Including (Income, Expenditure, Profit/loss, Income-and-Expenditure statements and Budgets, Cost price and Selling price) where there is direct link to Measurement and Maps and Plans. Question 5: Measurement, maps and plans or integration Probability will be examined in the context of one or more of the other questions. Each question can contain more than one context.

N.B: EACH PAPER MAY HAVE 4 OR 5 QUESTIONS

Mathematical Literacy Study Guide 2014

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Mathematical Literacy Study Guide 2014:

The Routledge Handbook of Financial Literacy Gianni Nicolini, Brenda J. Cude, 2021-12-30 Financial literacy and financial education are not new topics even though interest in these topics among policymakers financial authorities and academics continues to grow The Routledge Handbook of Financial Literacy provides a comprehensive reference work that addresses both research perspectives and practical applications to financial education This is the first volume to summarize the milestones of research in financial literacy from multiple perspectives to offer an overview The book is organized into six parts The first three parts provide a conceptual framework which discusses what financial literacy is how it should be measured and explains why it represents a relevant topic and effective tool in enhancing decision making among consumers as well as consumer protection strategies Part IV addresses the connection between financial education and financial literacy with chapters about financial education in school settings as well as for adults This part includes an analysis of the role of Fintech and the use of gamification in financial education Part V is a collection of contributions that analyze financial literacy and financial education around the world with a focus on geographical areas including the U S South America Western Europe Eastern Europe Asia and Africa This part also considers how financial literacy should be addressed in the case of Islamic finance The concluding part of the book examines how financial literacy is related to other possible approaches to consumer finance and consumer protection addressing the relationships between financial literacy and behavioral economics financial well being and financial inclusion This volume is an indispensable reference for scholars who are new to the topic including undergraduate and graduate students and for experienced researchers who wish to enrich their knowledge policymakers seeking a broader understanding and an international perspective and practitioners who seek knowledge of best practices as well as innovative approaches

Handbook for Educating Students with Disabilities Jeffrey P. Bakken, 2025-09-16 This Handbook focuses on the implications and strategies for educating students with disabilities Covering diverse populations from an academic behavioral and international standpoint it is a comprehensive resource spanning elementary to high school In the first section the Handbook delves into students with learning disabilities autism and emotional behavioral disorders The second section deals with students that have intellectual disabilities or extensive support needs The third section concentrates on students with sensory disabilities The fourth section addresses disabled youth and ways of knowing how to inform strategies in special education The fifth and final section explores how teachers parents and related personnel impact special education and services for these students Extensive in its coverage of different disability areas the content is both informative and innovative offering invaluable insights The Handbook draws from a mix of national and international perspectives making it an indispensable guide for anyone engaged in the critical area of special education

Inclusive Principles and Practices in Literacy Education Marion Milton, Chris Forlin, 2017-07-13 This volume draws together research and practice from the fields of literacy education and inclusion It provides an insight into

current theory research and issues associated with teaching literacy to all students in inclusive classrooms Literacy remains a critical success factor for students as the basis for concurrent and future learning

National Literacy Survey 2014, 2016

Mathematical Modelling and Applications Gloria Ann Stillman, Werner Blum, Gabriele Kaiser, 2017-11-05 This volume documents on going research and theorising in the sub field of mathematics education devoted to the teaching and learning of mathematical modelling and applications Mathematical modelling provides a way of conceiving and resolving problems in the life world of people whether these range from the everyday individual numeracy level to sophisticated new problems for society at large Mathematical modelling and real world applications are considered as having potential for multi disciplinary work that involves knowledge from a variety of communities of practice such as those in different workplaces e g those of educators designers construction engineers museum curators and in different fields of academic endeavour e g history archaeology mathematics economics From an educational perspective researching the development of competency in real world modelling involves research situated in crossing the boundaries between being a student engaged in modelling or mathematical application to real word tasks in the classroom being a teacher of mathematical modelling in or outside the classroom or bridging both and being a modeller of the world outside the classroom This is the focus of many of the authors of the chapters in this book All authors of this volume are members of the International Community of Teachers of Mathematical Modelling ICTMA the peak research body into researching the teaching and learning of mathematical modelling at all levels of education from the early years to tertiary education as well as in the workplace

Proceedings of the International Joint Conference on Arts and Humanities 2024 (IJCAH 2024) Cicilia D. M. Putri, Ali Mustofa, Wendy Hakim, Galih Pradana, Danang Tandyonomanu, 2025-02-12 This is an open access book Welcome to the International Joint Conference on Arts and Humanities 2024 held by the State University of Surabaya This joint conference features four international conferences the International Conference on Education Innovation ICEI 2024 the International Conference on Cultural Studies and Applied Linguistics ICCSAL 2024 the International Conference on Research and Academic Community Services ICRACOS 2024 and the International Conference of Social Science and Law ICSSL 2024 It encourages the dissemination of ideas in arts and humanity and provides a forum for intellectuals from all over the world to discuss and present their research findings on the research area This conference will be held in Surabaya East Java Indonesia on August 26th 2024 September 10th 2024

International Handbook of Comparative Large-Scale Studies in Education Trude Nilsen, Agnes Stancel-Piątak, Jan-Eric Gustafsson, 2022-09-21 This handbook is the first of its kind to provide a general and comprehensive overview of virtually every aspect of International Large Scale Assessment ILSA It includes historical economic and policy perspectives theoretical foundations methodology and reviews of findings from analyses of ILSA data After decades during which ILSAs have generated knowledge within central areas of education research and gained increased and substantial impact on educational policy practice and research such a broad overview for a wide ranging

audience is much needed With contributions from authors and editors from all continents this handbook appeals to an international audience and keeps a neutral perspective not favoring one ILSA over another The handbook is suitable to be read by politicians researchers and stakeholders who are seeking an overview of ILSAs their history and development and both potential benefits and limitations with regard to policy implications The reviews of findings from studies analyzing ILSA data will be of interest to stakeholders teachers researchers and policymakers Considering that the reviews extend to all fields pertaining to educational research the book will be valuable to all researchers interested in education Students may use the book to learn about ILSAs in the context of policy theoretical underpinnings or research Moreover the methodology section is written in a manner that is understandable and accessible for students stakeholders or researchers not familiar with these data This methodology part however is also a valuable resource for researchers who are familiar with ILSA data as it provides overviews of the design and sampling procedures of several ILSAs and includes advice on methods of analysis Even the owners of the ILSAs may find the book valuable as it contains overviews and insights into a number of ILSAs provides information how the data is used by the research community and includes recommendations for future instruments

Asian Research in Mathematics Education Bill Atweh, Lianghuo Fan, Catherine P. Vistro-Yu, 2023-05-17 This book focuses on the development of research in mathematics education cultures and its products from the perspective of local educators It consists of contributions from Mainland China Indonesia Korea Macao Singapore the Philippines and Turkey This book examines the development of the culture of research in the respective countries and also reviews the research conducted in the recent past in mathematics education It takes a critical stance through identifying the various accomplishments and identifying challenges for the future of research in terms of its diversification and quality Divided into two sections the first section considers factors around the development of a research culture in the respective countries by focusing on the means used to develop research expertise and quality The second section consists of overviews of the area of research and methodologies conducted in mathematics education in the various countries with the intention of highlighting the research topics conducted as well as discussing omissions of such research Mathematics Curriculum Reforms Around the World Yoshinori Shimizu, Renuka Vithal, 2023-06-28 This Open Access volume by the International Commission on Mathematical Instruction ICMI is an outcome of the ICMI Study 24 and gives a status quo of school mathematics reform around the world and what we can learn from this movement Each theme and section of the book offers descriptions and analyses of multiple case studies in different countries and contexts along with opportunities to compare contrast and learn from these diverse experiences The volume provides a synthesis and meta analysis of the different historical geographical and global aspects of school mathematics reforms and explores in which way curricula are elaborated proposed changed and reorganized It offers a more informed and comprehensive analysis of the roles of different actors and of the many aspects influencing and shaping mathematics curriculum reforms that are taking or have taken place It also explores the possibilities

and means to tackle a curricular reform in the current scenario we live in and how to unfold future developments This book will be of interest to practitioners and scholars with an interest in school mathematics curriculum reforms It will also be a useful resource to those involved in school mathematics curriculum reform initiatives by providing current information about the curriculum changes that are taking place in respect of content teacher education educational materials and a range of implementation challenges across diverse contexts

The Routledge International Handbook of Early Literacy Education Natalia Kucirkova, Catherine E. Snow, Vibeke Grøver, Catherine McBride, 2017-03-31 The Routledge International Handbook of Early Literacy Education offers a pioneering overview of early literacy provision in different parts of the world and brings together interdisciplinary research evidence on effective literacy teaching to inform current and future practice and policy of early literacy From the problem of identification of literacy difficulties in a particular learning context to supporting the provision of early literacy through digital media the handbook deals with the major concerns and newest areas of interest in literacy research With an international and future vision it provides an accessible guide to the main debates and future trends in the global field of early literacy and informs academics policy makers practitioners educators and students about innovative early literacy research methods and instruction The three sections and 30 ground breaking chapters reflect a conceptual framework of questions asked by scholars and educators interested in looking beyond traditional definitions of literacy Part I provides contemporary insights collected by internationally renowned scholars on what literacy is and what it can offer to young children in the twenty first century Part II is a collection of detailed portraits of 14 countries regions or language communities and focuses on early literacy provision practice and policy from across the world Part III outlines key interventions and research endorsed practices designed to support home school connections and children's reading and writing skills as well as vocabulary phonological awareness and narrative abilities with examples drawn from various home school and community environments All chapters promote discussion critical analysis and questions for reflection and are written in jargon free language in an easy to use themed format This handbook is an indispensable reference guide for practising teachers and student teachers especially those undertaking postgraduate qualifications as well as early literacy researchers policy makers and school based literacy leaders

Uncover the mysteries within Explore with is enigmatic creation, Discover the Intrigue in **Mathematical Literacy Study Guide 2014** . This downloadable ebook, shrouded in suspense, is available in a PDF format (Download in PDF: *). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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demand vengeance if your brother throws your favorite jeans into a tree and your brother might feel the same way after you spit gum in his hair the phrase with a vengeance means to do something with a lot of intensity

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web name class date id a biology chapter 3 test communities bionics and ecosystems true false indicate whether the statement is true or false 1 the main abiotic distinction between temperate grassland and tropical savanna is temperature not rainfall 2 the range of tolerance of an organism is used to define its aggressiveness in

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web full range of physical and biological conditions in which an organism lives and the way in which the organism uses those conditions resource any necessity of life such as water nutrients light food or space

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