



education

Department of
Education
FREE STATE PROVINCE

MID-YEAR EXAMINATION

GRADE 12

MATHEMATICAL LITERACY P2

JUNE 2023

MARKS: 100

TIME: 2 HOURS

This question paper consists of 09 pages and an addendum with 3 ANNEXURES.

Maths Literacy June Question 2015

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Teaching Secondary and Middle School Mathematics Daniel J. Brahier, 2020-04-01 Teaching Secondary and Middle School Mathematics combines the latest developments in research technology and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics The book explores the mathematics teaching profession by examining the processes of planning teaching and assessing student progress through practical examples and recommendations Beginning with an examination of what it means to teach and learn mathematics the reader is led through the essential components of teaching concluding with an examination of how teachers continue with professional development throughout their careers Hundreds of citations are used to support the ideas presented in the text and specific websites and other resources are presented for future study by the reader Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms The sixth edition has been updated and expanded with particular emphasis on the latest technology resources and standards The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as well as how to manage a classroom for success Features include The entire text has been reorganized so that assessment takes a more central role in planning and teaching Unit 3 of 5 now addresses the use of summative and formative assessments to inform classroom teaching practices A new feature Links and Resources has been added to each of the 13 chapters While the book includes a substantial listing of citations and resources after the chapters five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most important materials on the topic Approximately 150 new citations have either replaced or been added to the text to reflect the latest in research materials and resources that support the teaching of mathematics A Quick Reference Guide has been added to the front of the book to assist the reader in identifying the most useful chapter features by topic A significant revision to Chapter 13 now includes discussions of common teaching assessments used for field experiences and licensure as well as a discussion of practical suggestions for success in methods and student teaching experiences Chapter 9 on the practical use of classroom technology has been revised to reflect the latest tools available to classroom teachers including apps that can be run on handheld personal devices An updated Instructor s Manual features a test bank sample classroom activities Powerpoint slides chapter summaries and learning outcomes for each chapter and can be accessed by instructors online at www.routledge.com/9780367146511 [4 th International Conference on Lifelong Education and Leadership for ALL-ICLEL 2018](#) Prof. Dr. Osman TITREK, Gözde Sezen Gültekin, Agnieszka Zembrzuska, 2018-12-28 Copyright 2018 ICLEL Conferences All rights reserved by ICLEL Conferences [Fundamentals Davis Essential Nursing Content + Practice Questions](#) Patricia M Nugent, Barbara A Vitale, 2017-04-20 Up to date with the NCLEX RN 2016 Test Plan Too much information Too little time Here s everything you need to succeed in your fundamentals of nursing course and prepare for

course exams and the NCLEX Succinct content review in outline format focus on must know information while case studies and NCLEX style questions develop your ability to apply your knowledge in simulated clinical situations You ll also find proven techniques and tips to help you study more effectively learn how to approach different types of questions and improve your critical thinking skills

Mathematical and Statistics Anxiety: Educational, Social, Developmental and Cognitive Perspectives Kinga Morsanyi,Irene Cristina Mammarella,Denes Szűcs,Carlo Tomasetto,Caterina Primi,Erin Anne Maloney,2017-01-19 Mathematical anxiety is a feeling of tension apprehension or fear which arises when a person is faced with mathematical content The negative consequences of mathematical anxiety are well documented Students with high levels of mathematical anxiety might underperform in important test situations they tend to hold negative attitudes towards mathematics and they are likely to opt out of elective mathematics courses which also affects their career opportunities Although at the university level many students do not continue to study mathematics social science students are confronted with the fact that their disciplines involve learning about statistics another potential source of anxiety for students who are uncomfortable with dealing with numerical content Research on mathematical anxiety is a truly interdisciplinary field with contributions from educational developmental cognitive social and neuroscience researchers The current collection of papers demonstrates the diversity of the field offering both new empirical contributions and reviews of existing studies The contributors also outline future directions for this line of research

Full STEAM Ahead Cherie P. Pandora,Kathy Fredrick,2017-10-03 This book is a toolkit for youth and young adult librarians school and public who wish to incorporate science technology engineering art and math STEAM into their programs and collections but aren t sure where to begin Most educators are well aware of the reasons for emphasizing STEAM topics that fall within the broad headings of science technology engineering arts and mathematics in the curriculum regardless of grade level But how do librarians who work with tweens in middle school high school and public libraries fit into the picture and play their roles to underscore their relevance in making STEAM initiatives successful This book answers those key questions providing program guidelines and resources for each of the STEAM areas Readers will learn how to collaborate in STEAM efforts by providing information on resources activities standards conferences museums programs and professional organizations Emphasis is placed on encouraging girls and minorities to take part in and get excited about STEAM In addition the book examines how makerspaces can enhance this initiative how to connect your programs to educational standards where to find funding how to effectively promote your resources and programs including how school and public librarians can collaborate to maximize their efforts how to find and provide professional development and how to evaluate your program to make further improvements and boost effectiveness Whether you are on the cusp of launching a STEAM initiative or looking for ways to grow and enhance your program this book will be an invaluable resource

Psychology and Mathematics Education Gila Hanna,Laura Macchi,Karin Binder,Laura Martignon,Katharina Loibl,2023-09-05 Modern Mathematics is constructed

rigorously through proofs based on truths which are either axioms or previously proven theorems Thus it is par excellence a model of rational inquiry Links between Cognitive Psychology and Mathematics Education have been particularly strong during the last decades Indeed the Enlightenment view of the rational human mind that reasons makes decisions and solves problems based on logic and probabilities was shaken during the second half of the twentieth century Cognitive psychologists discovered that humans thoughts and actions often deviate from rules imposed by strict normative theories of inference Yet these deviations should not be called errors as Cognitive Psychologists have demonstrated these deviations may be either valid heuristics that succeed in the environments in which humans have evolved or biases that are caused by a lack of adaptation to abstract information formats Humans as the cognitive psychologist and economist Herbert Simon claimed do not usually optimize but rather satisfice even when solving problem This Research Topic aims at demonstrating that these insights have had a decisive impact on Mathematics Education We want to stress that we are concerned with the view of bounded rationality that is different from the one espoused by the heuristics and biases program In Simon s bounded rationality and its direct descendant ecological rationality rationality is understood in terms of cognitive success in the world correspondence rather than in terms of conformity to content free norms of coherence e g transitivity

Teaching Mathematics Creatively Linda Pound, Trisha Lee, 2021-09-30 This revised and updated third edition offers a range of strategies activities and ideas to bring mathematics to life in the primary classroom Taking an innovative and playful approach to maths teaching this book promotes creativity as a key element of practice and offers ideas to help your students develop knowledge understanding and enjoyment of the subject In the creative classroom mathematics becomes a tool to build confidence develop problem solving skills and motivate children The fresh approaches explored in this book include a range of activities such as storytelling music and construction elevating maths learning beyond subject knowledge itself to enable students to see mathematics in a new way Key chapters of this book explore Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Stimulating accessible and underpinned by the latest research and theory this is essential reading for trainee and practising teachers who wish to embed creative approaches to maths teaching in their classroom

The Linguistic Challenge of the Transition to Secondary School Alice Deignan, Duygu Candarli, Florence Oxley, 2022-12-30 This book provides a unique analysis and description of the linguistic challenges faced by school students as they move from primary to secondary school a major transition which some students struggle with emotionally and academically The study draws on a bespoke corpus of 2.5 million words of written materials and transcribed classroom recordings provided by the project s partner schools combines quantitative and qualitative approaches to the corpus data to explore linguistic variation across school levels registers and subjects describes the procedures of corpus compilation and analysis of written and spoken academic language showing how

modern corpus tools can be applied to this far reaching social and educational issue uncovers differences and similarities between the academic language that school children are exposed to at primary and secondary school contrasting this against the backdrop of the non academic language that they encounter outside school This book is important reading for advanced students and researchers in corpus linguistics applied linguistics and teacher education It carries implications for policymakers and schools looking to support students at this critical point in their schooling The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

Teaching to Change the World Jeannie Oakes, Martin Lipton, Lauren Anderson, Jamy Stillman, 2018-01-29 Teaching to Change the World is an up to the moment engaging social justice oriented introduction to education and teaching and the challenges and opportunities they present Both foundational and practical the chapters are organized around conventional topics but in a way that consistently integrates a coherent story that explains why schools are as they are Taking the position that a hopeful democratic future depends on ensuring that all students learn the text pays particular attention to inequalities associated with race social class language gender and other social categories and explores teachers role in addressing them This thoroughly revised fifth edition remains a vital introduction to the profession for a new generation of teachers who seek to become purposeful knowledgeable practitioners in our ever changing educational landscape for those teachers who see the potential for education to change the world

Features and Updates of the New Edition Fully updated Chapter 1 The U S Schooling Dilemma reflects our current state of education after the 2016 U S presidential election First person observations from teachers including first year teachers continue to offer vivid authentic pictures of what teaching to change the world means and involves Additional coverage of the ongoing effects of Common Core highlights the heated public discourse around teaching and teachers and charter schools Attention to diversity and inclusion is treated as integral to all chapters woven throughout rather than tacked on as separate units Digging Deeper resources on the new companion website include concrete resources that current and future teachers can use in their classrooms Tools for Critique provides instructors and students questions prompts and activities aimed at encouraging classroom discussion and particularly engaging those students least familiar with the central tenets of social justice education

McGraw-Hill Education TASC Kathy A. Zahler, Diane Zahler, Stephanie Muntone, Thomas Evangelist, 2014-02-21 The only TASC guide authorized by the test makers If you're looking for the most reliable guide to the TASC you've found it McGraw Hill Education TASC is the only TASC guide authorized by CTB McGraw Hill the people who make the test It's packed with everything you need to succeed on the test and get the high school credential you want Only this guide can show you exactly what to expect on the test tell you how the test is scored and give you authentic TASC questions for practice That makes this bestselling guide your most reliable and accurate source for everything you need to know about the TASC These great features make McGraw Hill Education TASC the test takers 1 choice Concise reviews of all

test topics Full length practice TASC test sections with complete explanations Pretest in every subject to help you plan your study Exclusive REAL TASC questions for practice straight from the test makers For your TASC test prep program nothing beats the official guide **Annual Report** South Africa. Department of Basic Education,2016 **McGraw-Hill Education Preparation for the TASC Test 2nd Edition** Kathy A. Zahler,2015-05-29 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The official guide for TASC the new high school equivalency test straight from the test makers at CTB McGraw Hill Now updated to cover major changes in test content McGraw Hill Preparation for the TASC Test walks you step by step through the test Each section features a pre test that helps you identify strengths and weaknesses before study Each chapter includes review of the test subjects and exercises that reinforce new skills Learning objectives are based on the Common Core State Standards just like the real exam You also get authentic TASC test questions with explanations straight from the test maker Test presently administered in California Indiana Nevada New Jersey New York West Virginia and Wyoming Features Exclusive Authentic sample TASC test questions straight from the test makers at CTB McGraw Hill Review and practice with all the latest TASC question types **Annual Report** Mpumalanga (South Africa). Department of Education,2014 Congressional Record United States. Congress,2005 **The American Catalogue ... July 1, 1876-Dec. 31, 1910** ,1941 **The Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Lords,2014 *Code of Federal Regulations, Title 34, Education, PT. 400-679, Revised as of July 1, 2015* U S Office of the Federal Register,2015-11-20 Evaluation Report to the Colorado Legislature Colorado. Adult Education and Literacy Grant Program,2016 **Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Commons,2013 **The Quarterly Review of Economics and Finance** ,2015

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web plate earthing diagram explained plate earthing is implemented when a plate made up of either copper or galvanized iron gi is buried vertically in the earth

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web include the earthing resistance and the minimum size of the earthing conductor which can be calculated using various methods as part of the design methodology lim s c and al shawesh y 35 proposed a systematic step by step approach for the design of reliable and effective earthing systems for low voltage

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web there are several methods of earthing like wire or strip earthing rod earthing pipe earthing plate earthing or earthing through water mains most commonly used methods of earthing are pipe earthing and plate earthing these methods are explained below in

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web in the case of a plate earth electrode the earthing of the conductor shall be securely terminated onto the plate with two bolts nuts check nuts and washers in the pipe earth electrode wire type earthing conductor shall be secured using nuts washers bolts and washers and terminating socket

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web various types of earthing are mentioned below plate earthing pipe earthing strip earthing plate earthing the most efficient way of earthing is plate earthing which involves installing a galvanized copper plate 3m deep in

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web plate earthing fig 3 plate earthing for this form of earthing a plate composed of copper or galvanized iron is placed vertically in the ground pit less than three meters above the ground for a more effective electrical grounding system one must maintain the earth s moisture condition surrounding the plate earthing system

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web sep 22 2022 if a copper or an iron plate is used as an earth electrode then this system of earthing is called plate earthing in pakistan both copper as well as iron type earthing plates are used copperplate tends to be 2 feet long 2 feet wide and 1 8 inches thick 600 x 600 x 3 millimeters whereas the size of the iron plate is 2 feet x 2 feet x 1 4 millimeter

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web the effectiveness of the plate earthing is based on the types of soil and also depends on how much is deep inside the earth pit the earth for the effectiveness of the plate earthing diagram also depends on the shape and size of the plate like diameter length

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web earthing iee wiring matters autumn 2005 iee org 21 2 requirements of bs 7671 earth electrodes bs 7671 recognises a wide variety of types of earth electrode regulation 542 02 01 lists the types recognised which include earth rods earth plates and figure 5 tt system figure 6 no earth provided tt system based on 25 mm² tails and

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web jun 1 2021 the diagram of plate earthing shows a plate electrode which is either made of galvanized iron or steel with a minimum thickness of 6 3 mm or copper with a minimum thickness of 3 15 mm the plate should be at least 60 cm by 60 cm in

size the plate is buried in the earth surrounded by alternating layers of charcoal and salt

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web mar 1 2018 strip or wire earthing plate earthing in this type of earthing a plate made up of galvanized iron or copper is buried vertically at a depth not less than 3m from the ground level the dimension needed for galvanized iron plate is

60cmx60cmx6 35mm and that for copper plate is 60cmx60cmx3 18mm

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web in plate earthing an earthing plate made of copper or g i is buried into the ground at a depth more than 3 metres from the ground level this earthing plate is embedded in an alternative layer of coke and salts strip earthing is used in transmission processes

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