



**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

JUNE 2023

**MATHEMATICAL LITERACY P2
MARKING GUIDELINE**

MARKS: 100

Symbol	Explanation
M	Method
M/A	Method with Accuracy
MCA	Method with Consistent Accuracy
CA	Consistent Accuracy
A	Accuracy
C	Conversion
S	Simplification
RT/RG/RM	Reading from a table OR Reading from a graph OR Read from map
F	Choosing the correct formula
SF	Substitution in a formula
J	Justification
P	Penalty, e.g. for no units, incorrect rounding off etc.
R	Rounding off OR Reason
AO	Answer only
NPR	No penalty for rounding

This marking guideline consists of 7 pages.

Grade12 June Mathematics 2014

VM Jensen



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Leading Change in Your School Douglas B. Reeves, 2009-04-14 Guiding schools through significant change is one of the toughest challenges educational leaders face but learning from the examples of those who have succeeded can make it less daunting In *Leading Change in Your School* distinguished author and researcher Douglas B Reeves offers lessons learned through his work with educators in thousands of schools around the world and presents real life examples of leaders who have met the challenge of change head on with impressive results for their schools and districts Readers will also find practical resources for engaging their colleagues in change initiatives Expanding on a number of his columns in the journal *Educational Leadership* Reeves offers insights and recommendations in four areas Creating conditions for change including assessments to determine personal and organizational readiness for change Planning change including cautionary notes about strategic planning Implementing change including the importance of moving from rhetoric to day to day reality and Sustaining change including the need to reorient priorities and values so that individual convenience gives way to a shared sense of the greater good The change leaders both teachers and administrators whose stories Reeves tells come from varied districts but they share a passion for creating schools that work for all students They are Reeves says people like you sharing similar challenges but perhaps with different results

Sketchnoting in the Classroom Nichole Carter, 2022-08-24 Author Nichole Carter shows how sketchnotes can help students retain new material develop skills to articulate empathy and build connections to larger concepts *Sketchnoting in the Classroom* includes strategies for helping students feel successful as they develop their skills for example asking them what their brain is telling them asking how they learn best and encouraging the process through specific note taking strategies The book includes Analysis of the brain science behind sketchnoting including teaching students how to identify patterns and apply them effectively in their sketchnotes Lesson ideas for sketchnoting across content areas including science social studies English language arts and math Tools and resources for both analog and digital sketchnoting techniques Tips for using sketchnotes for professional development including at conferences and at department or staff meetings Examples from a variety of teachers with experience using sketchnotes in their classes This book makes sketchnotes more accessible to all teachers and helps both teachers and students feel confident in visual note taking

The Framework for Success in Postsecondary Writing Nicholas N. Behm, Sherry Rankins-Robertson, 2017-03-03 Illustrates the widespread applications of the Framework for Success in Postsecondary Writing especially the eight habits of mind in helping students to be successful not only in postsecondary writing courses but also in four arenas of life academic professional civic and personal

Smart Geography Stoyan Nedkov, Georgi Zhelezov, Nadezhda Ilieva, Mariyana Nikolova, Boian Koulov, Kliment Naydenov, Steliyan Dimitrov, 2019-10-05 This book focuses on new and innovative spatial approaches based on smart solutions and developed in the field of geography and related interdisciplinary fields such as urban and regional studies landscape ecology and ecosystem services It includes contributions from a conference dedicated

to the 100th anniversary of the Bulgarian Geographical Society In turn the book reveals how 21st century geography is expected to facilitate the development of human capital and the knowledge society while also offering place specific solutions for sustainable regional development and utilization of the planet s natural and human capital to improve social wellbeing This volume is intended for the global geographical research community as well as professionals and practitioners in all fields that deal with space including regional planners and environmental managers Teaching Reasoning Laurel Hecker, Julia A.

Simms, Ming Lee Newcomb, 2015-02-19 Teach students essential skills with engaging activities Explore key reasoning skills from the Common Core and Next Generation Science Standards and strategies for teaching them to students Then discover fun research based games and activities to reinforce students reasoning skills This practical text provides clear guidance for incorporating these tools into your classroom to prepare students for academic and lifetime success **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

Contemporary Research and Perspectives on Early Childhood Mathematics Education Iliada Elia, Joanne Mulligan, Ann Anderson, Anna Baccaglini-Frank, Christiane Benz, 2018-02-21 This book brings together a collection of research based papers on current issues in early childhood mathematics education that were presented in the Topic Study Group 1 TSG 1 at the 13th International Congress on Mathematical Education ICME 13 held at the University of Hamburg in 2016 It will help readers understand a range of key issues that early childhood mathematics educators encounter today Research on early childhood mathematics education has grown in recent years due in part to the well documented positive relation between children s early mathematical knowledge and their later mathematics learning and to the considerable emphasis many

countries are now placing on preschool education The book addresses a number of central questions including What is mathematical structural development and how can we promote it in early childhood How can multimodality and embodiment contribute to early mathematics learning and to acquiring a better understanding of young children s mathematical development How can children s informal mathematics related experiences affect instruction and children s learning in different mathematics content areas What is the role of tools including technology and picture books in supporting early mathematics learning What are the challenges in early childhood mathematics education for teachers education and professional development

Beyond Measure Vicki Abeles, Grace Rubenstein, 2015-10-06 From the director of *Race to Nowhere* comes a book for parents students and educators on how to revolutionize learning prioritize children s health and re envision success for a lifetime

The Inspirational Untold Stories of Secondary Mathematics Teachers Alice F. Artzt, Frances R. Curcio, 2020-08-01 Personal story telling is a powerful and interesting medium through which one can share experiences insights successes and difficulties in meaningful contexts Teaching in general and mathematics teaching in particular is much more than what meets the eye Most people have only experienced teaching from the vantage point of a student and have impressions of teachers and teaching that are simplistic and usually totally incorrect The lives of mathematics teachers are varied and contrary to what one might think they are The journeys of exemplary in service teachers are not linear there are many bends potholes and detours through which they have navigated The road conditions of teaching are fodder for the 12 untold stories collected in this volume whose authors graduated from a special four year undergraduate mathematics teacher preparation program containing innovative components many of which are revealed through the experiences described in their stories The range of narratives vary in every possible way from the reasons they became mathematics teachers to the number of years teaching to the experiences encountered while teaching to the different roles they have assumed throughout their careers Nevertheless one strand permeates all of the stories their passion for what they do and their ability to reflect on early college experiences that contribute to their performance These inspiring narratives will shed light on the developmental processes of mathematics teachers what it means to teach mathematics and the components of a secondary mathematics teacher preparation program that can contribute to their expertise Praise for *The Inspirational Untold Stories of Secondary Mathematics Teachers* This lovely book contains personal stories about the process of becoming a mathematics teacher and the challenges and rewards of the early years of teaching These stories highlight that the path to teaching is often indirect rocky and filled with doubts But these poignant stories are powerful because they are so honest I wish I d read these stories before I experienced some of the joys and challenges of my early years of teaching because they would have prepared me for the roller coaster of emotion associated with entering this complex but beautiful profession I think these stories will be helpful when working with prospective and early career teachers

Randolph Philipp Professor of Mathematics Education School of Teacher Education San Diego State University

Immediate Past President Association of Mathematics Teacher Educators AMTE This is a book about real people and true stories the narratives are really insightful and truly inspirational It is not only a book that those involved in teacher preparation programs may find useful and informative to read but also a book that could provide insights and inspiration to those who are exploring what it is like to be a teacher The journey of each of these success stories despite the diverse starting point of each speaks volumes of the importance of an effective teacher preparation program that not only nurtures but also provides support for the growth of the preservice teachers The narratives in this book are certainly a testimonial to what we often hear Teachers are more often made than born Ngan Hoe Lee Associate Professor Mathematics Mathematics Education National Institute of Education Singapore **Most Likely to Succeed** Tony Wagner, Ted Dintersmith, 2015-08-18 An urgent call for the radical re imagining of American education so that we better equip students for the realities of the twenty first century *The Wrong Direction for Today's Schools* Ernest J. Zarra III, 2015-07-22 The Wrong Direction for Today's Schools The Impact of Common Core on American Education is an in depth analysis of the newest national American education fad intended to replace the 2002 incarnation of the ESEA No Child Left Behind Zarra delves into the seeds that produced the Common Core Standards as well as the groups involved in the political and corporate pressure to completely revamp America's K 16 education system The author lays out a strong case for political motives involving the advancement for nationalized education such as those found in select European and Asian nations Zarra also follows the funding and provides solid documentation and analysis of international and national assessments and how the funding and assessments proved pivotal in the overhaul of American education After an analysis of the underpinnings of the Common Core Standards Zarra critiques the myths and facts of the Common Core and balances these with the emerging realities impacting average Americans and their families Zarra's book is a must read and will prove to be extremely useful to all who are concerned about public private and homeschool education in America *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. **If Einstein**

Ran the Schools Thomas Armstrong Ph.D., 2019-10-11. Many world-class thinkers and creators have been concerned about the state of education in the United States. Discover their thoughts on how children really learn and what teachers must do to optimally tap children's latent abilities. During the last three decades, education reformers have pushed standardized testing and policies like No Child Left Behind and Common Core to improve test scores and proficiency in basic skills. However, during this period, that author Thomas Armstrong calls the miseducation of America, a number of troubling trends have surfaced, including a decrease in creative thinking scores among children in kindergarten through third grade. Rather than focus on what's wrong with the education system that has produced these outcomes, Armstrong lays out what creative thinkers know about how children should be educated. In an extended thought experiment, he asks what would happen if we turned the reins of educational policy over not to the politicians and educational bureaucrats but to eminent thinkers and creators like Albert Einstein, Pablo Picasso, Martin Luther King Jr., Rachel Carson, Doris Lessing, Jane Goodall, and other seminal culture builders. What might they say about the best way to educate a child? If Einstein Ran the Schools suggests that the answers to this intriguing question should guide future efforts to reform our nation's schools. **High School Mathematics**

Lessons to Explore, Understand, and Respond to Social Injustice Robert Q. Berry III, Basil M. Conway IV, Brian R. Lawler, John W. Staley, 2020-03-09. Empower students to be the change, join the teaching mathematics for social justice movement. We live in an era in which students have, through various media and their lived experiences, a more visceral experience of social, economic, and environmental injustices. However, when people think of social justice, mathematics is

rarely the first thing that comes to mind Through model lessons developed by over 30 diverse contributors this book brings seemingly abstract high school mathematics content to life by connecting it to the issues students see and want to change in the world Along with expert guidance from the lead authors the lessons in this book explain how to teach mathematics for self and community empowerment It walks teachers step by step through the process of using mathematics across all high school content domains as a tool to explore understand and respond to issues of social injustice including environmental injustice wealth inequality food insecurity and gender LGBTQ and racial discrimination This book features Content cross referenced by mathematical concept and social issues Downloadable instructional materials for student use User friendly and logical interior design for daily use Guidance for designing and implementing social justice lessons driven by your own students unique passions and challenges Timelier than ever teaching mathematics through the lens of social justice will connect content to students daily lives fortify their mathematical understanding and expose them to issues that will make them responsive citizens and leaders in the future

Conservation Education and Outreach Techniques Susan K. Jacobson, Mallory McDuff, Martha Monroe, 2015-09-03 The conservation of biological diversity depends on people's knowledge and actions This book presents the theory and practice for creating effective education and outreach programmes for conservation The authors describe an exciting array of techniques for enhancing school resources marketing environmental messages using social media developing partnerships for conservation and designing on site programmes for parks and community centres Vivid case studies from around the world illustrate techniques and describe planning implementation and evaluation procedures enabling readers to implement their own new ideas effectively Conservation Education and Outreach Techniques now in its second edition and updated throughout includes twelve chapters illustrated with numerous photographs showing education and outreach programmes in action each incorporating an extensive bibliography Helpful text boxes provide practical tips guidelines and recommendations for further exploration of the chapter topics This book will be particularly relevant to conservation scientists resource managers environmental educators students and citizen activists It will also serve as a handy reference and a comprehensive text for a variety of natural resource and environmental professionals

International Handbook of Mathematics Teacher Education: Volume 3, 2019-12-09 This second edition of the International Handbook of Mathematics Teacher Education builds on and extends the topics ideas in the first edition while maintaining the themes for each of the volumes Collectively the authors looked back beyond and within the last 10 years to establish the state of the art and continuing and new trends in mathematics teacher and mathematics teacher educator education and looked forward regarding possible avenues for teachers teacher educators researchers and policy makers to consider to enhance and or further investigate mathematics teacher and teacher educator learning and practice in particular The volume editors provide introductions to each volume that highlight the subthemes used to group related chapters which offer meaningful lenses to see important connections within and across chapters Readers can also use these

subthemes to make connections across the four volumes which although presented separately include topics that have relevance across them since they are all situated in the common focus regarding mathematics teachers Volume 3 Participants in Mathematics Teacher Education focuses not only on prospective and practicing teachers as learners but also on school colleagues teacher educators researchers and others who work to provide effective learning opportunities for teachers The emphasis is on describing and analysing participants engagement in mathematics teacher education collaborations and contexts from various perspectives Thus as the third volume in the series it further broadens our understanding of the development of mathematics teachers

The Robot Factory Joseph Ganem,2018-08-27 This book exposes a disturbing misuse of the scientific method to advance policies and agendas that are in fact detrimental to both science and education The author a physics professor examines two related trends in education the practice of data driven reform and the disparaging of the traditional liberal arts in favor of programs with a heavy emphasis on science and technology Many of the reforms being foisted on educators have more in common with pseudo science than real science The reduction of education to a commodity and the shilling of science as a means to enhance corporate profits lead to an impoverished and stunted understanding of science in particular and of education in general How is it possible for schools with all students learning at grade level to be rated as failing teachers to be rated as ineffective after all their students meet their learning outcomes rising grade school math standards to result in more college students needing remedial math politicians to disparage scientists and their results but argue that more students should study science These bizarre outcomes have happened and are the result of an education system that misuses and misrepresents math and science in the classroom and in crafting education policies This book exposes the flawed and fallacious thinking that is damaging education at all levels throughout the United States and makes a compelling case for rethinking the standardized optimized and quantified approaches in vogue in education today to accommodate the different needs of individual teachers and students

Handbook of Research on Competency-Based Education in University Settings Rasmussen, Karen,Northrup, Pamela,Colson, Robin,2016-10-04 The majority of adult learners are looking to attain their desired academic credentials within the shortest amount of time possible By implementing competency based programs learners are accelerated through their designed program or course The Handbook of Research on Competency Based Education in University Settings is a pivotal reference source for the latest academic research on the use of competency based testing in higher education institutions Focusing on innovative practices strategies and real world scenarios this book is ideally designed for educators students administrators professionals and academics interested in emerging developments for competency based education initiatives

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

Five Pillars of the Mind: Redesigning Education to Suit the Brain Tracey Tokuhama-Espinosa, 2019-03-05 From the author of *Neuromyths* a revolutionary look at teaching and learning via the logical pathways of the brain A review of the research on brain networks reveals surprisingly that there are just five basic pillars through which all learning takes place Symbols Patterns Order Categories and Relationships Dr Tokuhama Espinosa proposes that redesigning school curriculum around these five pillars whether to augment or replace traditional subject categories could enable students to develop the transdisciplinary problem solving skills that are often touted as the ultimate goal of education heralding a potential paradigm shift in education *Five Pillars of the Mind* explores how aligning instruction with the brain's natural design might just be the key to improving students learning outcomes

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