

MATHEMATICAL LITERACY – GRADE 12 NOTES

CHAPTER 6

6.1 Interpreting and analysing data

Purposes of graphs:

- a way of exploring the relationships in data
- a way of displaying and reporting data
- making it easier to report patterns and relationships, shapes of distributions and trends.

Any graph used to report findings should show:

- the significant features and findings of the investigation in a fair and easy-to-read way
- the underlying structure of an investigation in terms of the relationships between and within the variables
- the dependent variable on the horizontal (x) axis and the independent variable on the vertical (y) axis.

Types of graphs

We have the following types of graphs:

- Line graph
- Bar graph
- Histogram
- Scatter plot
- Pie chart
- Box and whisker plot

6.1.1 Line graphs

In data handling we use line graphs to show the relationship between two quantities. A line graph is formed by using straight lines to join data points which have been mapped on a grid. It is used to show the change of information over time.

Worked example 10

The table below shows the average number of minutes per month that Jabu spent watching TV from January to November last year.

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Daily TV viewing time (min)	108	103	108	120	115	122	116	105	110	105	104

- Plot this data on a set of axes.
- Can you observe any trends or patterns in the data? Give some possible reasons for these trends.
- Would you be able to represent this data on a bar graph?
- What is the advantage of using a line graph to show this information?

Grade 12 Math Literacy 2013 Study Guide

Sasha Hu



Grade 12 Math Literacy 2013 Study Guide:

Literacy Strategies for English Learners in Core Content Secondary Classrooms Margarita Espino Calderon, Maria N. Trejo, 2015-10-08 Motivate English learners to boost proficiency with confidence This book focuses on instructional strategies that integrate language literacy and content across all subject areas in secondary education Presenting instructional methods within the framework of the Common Core and other state standards the authors demonstrate how rigorous instruction can help amplify students self worth and promote more significant learning to ensure all students thrive **The Four Roles of the Numerate Learner** Mary Fiore, Maria Luisa Lebar, 2016-03-14 This timely book builds on our current understanding of how to effectively teach mathematics and borrows from the successful frameworks used to teach literacy It introduces a numeracy framework sense maker skill user thought communicator and critical interpreter that supports an integrated approach to math instruction It considers the mathematical practices students need to learn to construct number knowledge become mathematicians and simply do math The goal is to provide multiple entry points into the world of math instruction a new way of thinking and learning where learners engage in critical thinking about numeracy and act on their knowledge

Kim Bailey, Chris Jakicic, 2013-07-23 Leverage teamwork to integrate the CCSS into your curriculum and build on a foundational knowledge of PLCs You ll gain a comprehensive understanding of the shifts required to implement the standards in core content areas and find valuable tips and strategies for creating strong collaborative practices Identify the essential standards determine learning targets define proficiency learn how to design rigorous assessments and more 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

Handbook of Consumer Finance Research Jing Jian

Xiao,2016-05-30 This second edition of the authoritative resource summarizes the state of consumer finance research across disciplines for expert findings on and strategies for enhancing consumers economic health New and revised chapters offer current research insights into familiar concepts retirement saving bankruptcy marriage and finance as well as the latest findings in emerging areas including healthcare costs online shopping financial therapy and the neuroscience behind buyer behavior The expanded coverage also reviews economic challenges of diverse populations such as ethnic groups youth older adults and entrepreneurs reflecting the ubiquity of monetary issues and concerns Underlying all chapters is the increasing importance of financial literacy training and other large scale interventions in an era of economic transition Among the topics covered Consumer financial capability and well being Advancing financial literacy education using a framework for evaluation Financial coaching defining an emerging field Consumer finance of low income families Financial parenting promoting financial self reliance of young consumers Financial sustainability and personal finance education Accessibly written for researchers and practitioners this Second Edition of the Handbook of Consumer Finance Research will interest professionals involved in improving consumers fiscal competence It also makes a worthwhile text for graduate and advanced undergraduate courses in economics family and consumer studies and related fields

Developing Readers in the Academic Disciplines Doug Buehl,2023-10-10 Being literate in an academic discipline is more than being able to read and comprehend text you can think speak and write as a historian scientist mathematician or artist Author Doug Buehl strips away the one size fits all approach to content area literacy and presents an instructional model for disciplinary literacy which honors the discipline and helps students learn within that area In this revised second edition Developing Readers in the Academic Disciplines shows how to help students adjust their thinking to comprehend a range of complex texts that fall outside their reading comfort zones Inside you ll find Instructional tools that adapt generic literacy practices to discipline

specific variations Strategies for frontloading instruction to activate and build background knowledge New approaches for encouraging inquiry around disciplinary texts In depth exploration of the role of argumentation in informational text Numerous examples from science mathematics history and social studies English language arts and related arts to show you what vibrant learning looks like in various classroom settings Designed to be a natural companion to Buehl's Classroom Strategies for Interactive Learning Developing Readers in the Academic Disciplines introduces teachers from all disciplines to new kinds of thinking and ultimately teaching that helps students achieve new levels of understanding **Collaborative Coaching for Disciplinary Literacy** Laurie Elish-Piper, Susan K. L'Allier, Michael Manderino, Paula Di Domenico, 2016-01-15 Today's standards challenge middle and high school teachers to teach their content deeply and meaningfully This book provides an innovative coaching model for helping science social studies and English language arts teachers promote the reading writing listening speaking and thinking skills needed for high level work in each discipline Seventeen specific strategies are presented for large group small group and individual coaching including step by step instructions and implementation tips Profiles of highly effective disciplinary literacy coaches illustrate the nuts and bolts of the job and highlight ways to deal with common challenges In a large size format for easy photocopying the book includes 21 reproducible forms Purchasers get access to a Web page where they can download and print the reproducible materials

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 *Deconstructing Depth of Knowledge* Erik M. Francis, 2021-11-05 Depth of knowledge DOK has become a priority for many schools But if your understanding of DOK is a little cloudy you're not alone This resource is your one stop shop for learning what it is who it's for and how to use and sustain it Ultimately you will discover how to plan and provide learning experiences that are academically rigorous socially and emotionally supportive and student responsive Learn how DOK is a different deeper way of approaching teaching and learning Explore the different DOK levels and how they relate to instruction Understand DOK's relationship with standards and assessment Designate correct levels based on learning needs Acquire strategies for helping students engage with DOK on a deeper level Contents Introduction What Depth of Knowledge Is Not Chapter 1 What Exactly

Is Depth of Knowledge Chapter 2 What Are DOK Teaching and Learning Experiences Chapter 3 How to Teach and Learn for Depth of Knowledge Chapter 4 How to Use Webb's DOK Levels as a Multi-Tiered System of Support Chapter 5 How to Deconstruct Learning Intentions for Depth of Knowledge Chapter 6 How to Designate the Depth of Knowledge Level Demanded Chapter 7 How to Construct DOK Learning Targets and Success Criteria Chapter 8 How to Ask and Address Good Questions for Depth of Knowledge Chapter 9 Let's Make a DOK Conclusion References and Resources Index *Primary Mathematics Pedagogy at the Intersection of Education Reform, Policy, and Culture* Sarah Murray, Princess Allotey, 2021-11-29 This volume provides an in-depth comparative examination of how primary mathematics education is influenced by national education reform policy, local resources, and culture in three different countries. By drawing on first-hand observations and interviews as well as analysis of policy documents and learning resources, the book considers the viability of transferring best practices in primary mathematics education across global contexts. Three diverse countries—Ghana, the US, and Singapore—are explored. Similarities and differences are highlighted, and the influence of national and regional initiatives related to pedagogical strategies, teacher education, and cultural expectations are considered to offer an insightful examination of how best practices might be shared across borders. This book will benefit researchers, academics, and postgraduate scholars with an interest in international and comparative education, mathematics, and educational policy. Those with a specialization in primary mathematics education, including pedagogy and teacher preparation, will also benefit from this book.

The Skill Approach in Education Mehmet Serdar Erciş, Yusuf Söylemez, 2018-07-27 Today, information and technological developments grow at a rapid pace. Social and political life becomes more and more complicated, and in this process, active citizenship becomes more essential. Knowledge-driven changes in society and economies require individuals to quickly acquire new skills. Otherwise, it is increasingly difficult for employees to adapt to business life and to find a job. Education has to take account of these circumstances, adapt to the rapid developments in the world, and educate individuals to continue lifelong learning. For this, skills such as active and independent learning, assertiveness, creativity, self-improvement, and lifelong learning are important. Skill teaching differs from knowledge teaching. Skill is the transfer of knowledge to practice. This process involves a learning process that requires the steps of researching, planning, controlling, and correcting. The knowledge should be organized, integrated, transferred into practice, mental and physical resources should be activated, and knowledge use should be demonstrated in practice in order to improve the skill. This book contributes to the teaching of skills and includes basic concepts and skills: language skills, science and mathematics skills, psycho-social skills, and visual arts skills. It also explains how to teach skills, how to prepare for activities, and how to implement activities in educational settings. These applications are intended to draw attention to skill teaching, to raise educators to increase the success of education, to improve the skills of students, and to enable them to use the skills they have learned in school, outside of school, and in complex tasks.

Common Core State Standards and the Speech-Language Pathologist Lissa A. Power-deFur, 2015-10-01

Common Core State Standards and the Speech Language Pathologist Standards Based Intervention for Special Populations is a tool for the analysis of the Common Core State Standards CCSS and the development of interventions to meet student specific needs The CCSS is an education initiative in the United States that details what K 12 students should understand in English language arts and mathematics by the end of each grade The initiative seeks to establish consistent education standards across the United States and ensure that graduating students are prepared to enter college or the workforce As of 2015 forty three states had adopted the CCSS With the implementation of the CCSS it is critical that speech language pathologists collaborate with educators to enable the success of students with communication disorders as well as English language learners This text offers a practical approach for application of the CCSS with a parallel analysis of children s strengths and needs to create a template for intervention It addresses strategies to facilitate the success of students in accessing and achieving the expectations of the general curriculum with a focus on students with communication disorders hearing loss vision loss deaf blindness specific learning disabilities autism multiple disabilities and English language learners Key features include Background and implications of the CCSS Chapters written by experts in the field Tools for analysis of the language expectations of the CCSS and a framework for aligning intervention both direct and classroom based with the CCSS for students at elementary and secondary levels Collaboration strategies to facilitate success in the classroom Multiple case studies Common Core State Standards and the Speech Language Pathologist is a must have resource for any speech language pathologist working with children as well as their education and administration partners

Leading Modern Learning Jay McTighe, Greg Curtis, 2019-07-08 Redesign education to meet the needs of 21st century students In the second edition of Leading Modern Learning authors Jay McTighe and Greg Curtis outline a reworked version of their blueprint for major education reform More than a simple refresh the latest edition incorporates new insights experiences and tools that will help you implement modern learning practices in your department school or district Use this book to guide education and curriculum reform and empower modern learners Understand the necessity and value of education reform and updating school curriculum for the 21st century classroom Learn how to use a blueprint for your vision of learning mission and curriculum development to establish mission clarity and effective instruction and assessment practices Explore systems thinking and frameworks for backward design that can be utilized by school leadership to develop action plans and guide school curriculum reform for modern learning Read an all new chapter on change management and strategic planning for district and school leadership as well as new Notes From the Field which highlight how to avoid potential missteps and misunderstandings that inhibit progress Utilize the appendices and free reproducibles to further your understanding of education reform curriculum development and school leadership for modern learning A joint publication of ASCD and Solution Tree Contents Foreword Introduction Chapter 1 Creating a Futures Oriented Vision and Mission Chapter 2 From Mission to Action Chapter 3 Curriculum for Modern Learning Chapter 4 An Assessment System for Modern Learning Chapter

5 Instruction for Modern Learning Chapter 6 A Reporting System for Modern Learning Chapter 7 Leadership for Modern Learning Appendix A Sources for Futures Oriented Thinking Tools and Processes Appendix B Sample Sources and Performance Indicators for 21st Century Skills Appendix C Sample Map of Cornerstone Performance Tasks and Transfer Goals References and Resources Index **Psychological Studies in the Teaching, Learning and Assessment of**

Mathematics Yiming Cao,Zsolt Lavicza ,Shuhua An,Lianchun Dong,2024-05-31 There is no doubt that the onset of a new decade has brought high expectations of academic progress for scholars especially for researchers in mathematics education The International Group for the Psychology of Mathematics Education was born in 1976 which focused on the international exchange of knowledge in the psychology of mathematics education the promotion of interdisciplinary research with psychologists mathematicians and mathematics teachers and the development of the psychological aspects of teaching and learning mathematics and its implications Improving Reading Comprehension of Middle and High School Students Kristi

L. Santi,Deborah K. Reed,2015-03-04 This volume focuses on our understanding of the reading comprehension of adolescents in a high stakes academic environment Leading researchers share their most current research on each issue covering theory and empirical research from a range of specializations including various content areas English language learners students with disabilities and reading assessment Topics discussed include cognitive models of reading comprehension and how they relate to typical or atypical development of reading comprehension reading in history classes comprehension of densely worded and symbolic mathematical texts understanding causality in science texts the more rigorous comprehension standards in English language arts classes balancing the practical and measurement constraints of the assessment of reading comprehension understanding the needs and challenges of English language learners and students in special education with respect to the various content areas discussed in this book This book is of interest to researchers in literacy and educational psychology as well as curriculum developers **Research in Mathematics Education in Australasia 2012-2015** Katie

Makar,Shelley Dole,Jana Visnovska,Merrilyn Goos,Anne Bennison,Kym Fry,2016-06-02 With the ninth edition of the four yearly review of mathematics education research in Australasia the Mathematics Education Research Group of Australasia MERGA discusses the Australasian research in mathematics education in the four years from 2012 2015 This review aims to critically promote quality research and focus on the building of research capacity in Australasia **Handbook of Parenting**

Marc H. Bornstein,2019-03-06 This highly anticipated third edition of the Handbook of Parenting brings together an array of field leading experts who have worked in different ways toward understanding the many diverse aspects of parenting Contributors to the Handbook look to the most recent research and thinking to shed light on topics every parent professional and policy maker wonders about Parenting is a perennially hot topic After all everyone who has ever lived has been parented and the vast majority of people become parents themselves No wonder bookstores house shelves of how to parenting books and magazine racks in pharmacies and airports overflow with periodicals that feature parenting advice However almost none

of these is evidence based The Handbook of Parenting is Period Each chapter has been written to be read and absorbed in a single sitting and includes historical considerations of the topic a discussion of central issues and theory a review of classical and modern research and forecasts of future directions of theory and research Together the five volumes in the Handbook cover Children and Parenting the Biology and Ecology of Parenting Being and Becoming a Parent Social Conditions and Applied Parenting and the Practice of Parenting Volume 5 The Practice of Parenting describes the nuts and bolts of parenting as well as the promotion of positive parenting practices Parents meet the biological physical and health requirements of children Parents interact with children socially Parents stimulate children to engage and understand the environment and to enter the world of learning Parents provision organize and arrange their children s home and local environments and the media to which children are exposed Parents also manage child development vis vis childcare school the circles of medicine and law as well as other social institutions through their active citizenship The chapters in Part I on Practical Parenting review the ethics of parenting parenting and the development of children s self regulation discipline prosocial and moral development and resilience as well as children s language play cognitive and academic achievement and children s peer relationships The chapters in Part II on Parents and Social Institutions explore parents and their children s childcare activities media schools and healthcare and examine relations between parenthood and the law public policy and religion and spirituality

Secondary School English Education in Asia Bernard Spolsky, Kiwan Sung, 2015-03-27 Continuing on from the previously published Primary School English Language Education in Asia From Policy to Practice Moon Spolsky 2012 this book compiles the proceedings which took place at the 2011 annual conference of AsiaTEFL which took place in Seoul Korea It surveys the current status practices challenges and future directions of Secondary English education in 11 diverse countries in Israel Japan Korea Singapore Bangladesh India Indonesia Malaysia Pakistan Vietnam and China Given the importance of secondary English education as the central feature for continuing development of target language and culture in English language teaching in Asia each contributed chapter includes key policies theories and practices related to the development and implementation of country specific curricular and instructional programs in secondary English educational contexts in these countries Secondary School English Education in Asia From Policy to Practice critically analyses both sides of the English language debate from advantages to complications in its chapters including Educating for the 21st Century The Singapore Experience Miles to Go Secondary Level English Language Education in India English Language Education Innovation for the Vietnamese Secondary School The Project 2020 Exploring the Value of ELT as a Secondary School Subject in China A Multi goal Model for English Curriculum Secondary School English Education in Asia will appeal to English Language Teaching ELT researchers teacher educators trainee teachers and teachers primarily those teaching in Asia

Indigenous Research of Land, Self, and Spirit Throne, Robin, 2020-12-04 Indigenous cultures meticulously protect and preserve their traditions Those traditions often have deep connections to the homelands of indigenous peoples thus

forming strong relationships between culture land and communities Autoethnography can help shed light on the nature and complexity of these relationships Indigenous Research of Land Self and Spirit is a collection of innovative research that focuses on the ties between indigenous cultures and the constructs of land as self and agency It also covers critical intersectional feminist and heuristic inquiries across a variety of indigenous peoples Highlighting a broad range of topics including environmental studies land rights and storytelling this book is ideally designed for policymakers academicians students and researchers in the fields of sociology diversity anthropology environmentalism and history **Innovations in**

Economic Education Mary Beth Henning,2016-11-25 Innovations in Economic Education addresses the growing issue of financial illiteracy by showing how economics can be successfully integrated into classrooms from kindergarten through higher education Pre service teachers experienced educators curriculum leaders parents and school administrators will find practical ideas to improve economic understanding At the elementary level the book provides creative ways of introducing young students to the basic concepts of economics financial justice and social action For higher grade levels the book offers ideas to integrate economics into current history civics and math curricula The final portion of the book features recommendations by leading economic educators on how economics can play a greater role in teachers professional development The pedagogical tools presented in each chapter include lesson plans and practical insights and are designed to meet the NCSS C3 Framework and Common Core State Standards for Social Studies This book is a timely and valuable resource for all educators interested in improving their students economic literacy and financial decision making

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