

# Mathematics

## For Elementary Teachers

10th EDITION

A CONTEMPORARY APPROACH



Gary L. Musser • Blake E. Peterson • William F. Burger

WILEY

# Mathematics Content For Elementary Teachers

**Joanna Osborne Masingila, Frank K.  
Lester, Anne Miller Raymond**



## **Mathematics Content For Elementary Teachers:**

Mathematics Content for Elementary Teachers Douglas K. Brumbaugh, Peggy L. Moch, Mary E. Wilkinson, 2004-09-15 THE book for elementary education mathematics content courses Designed to help prospective teachers of elementary school mathematics learn content beyond the rote level this text stimulates readers to think beyond just getting the problem right and fosters their development into thoughtful reflective self motivated life long learners It stresses the what and why of elementary school mathematics content Hints are provided about how to teach the content but this is mostly left to courses and texts that are dedicated to that purpose The text is organized around the National Council for Teachers of Mathematics Principles and Standards for School Mathematics The Standards dictate the basic sections of the text Within each section appropriate specific topics are developed intertwined with technology problem solving assessment equity issues planning teaching skills use of manipulatives sequencing and much more In addition major focal points of the Standards are emphasized throughout effective teachers of mathematics should be able to motivate all students to learn should understand the developmental levels of how children learn should concentrate on what children need to become active participants in the learning environment and should be engaged in ongoing investigations of new mathematical concepts and teaching strategies Mathematics Content for Elementary Teachers is based on several fundamental premises The focus of mathematics education should be on the process not the answer Elementary teachers should know the mathematics content they are teaching know more than the content they are teaching and teach from the overflow of knowledge It is important for teachers to be flexible in allowing students to use different procedures teaching from the overflow of knowledge implies knowing how to do a given operation more than one way and being willing to examine many different ways Teachers need to learn to carefully cover the topics to be taught to reflect upon them and to be able to organize them To help prospective elementary teachers concentrate on the mathematics content they will be expected to teach and begin to build the foundation for the methods they will use this text includes only elementary mathematics content and does not address middle school concepts Pedagogical features The text is organized according to NCTM Standards An informal writing style speaks directly to readers and is geared to pre service teachers Focus is given to multiple methods of problem solving at four developmental levels Questions exercises and activities are interspersed throughout each section rather than gathered at the end of each chapter Complete solutions for exercises are provided

The Mathematics Education of Elementary Teachers Lynn C. Hart, Susan Oesterle, Susan Swars Auslander, Ann Kajander, 2016-07-01 This book is an edited volume addressing specific issues of significance for individuals involved with the undergraduate mathematics content preparation of prospective elementary teachers PSTs Teaching mathematics content courses to this group of students presents unique challenges While some PSTs enter their teacher preparation with weak mathematical skills and knowledge many also hold negative attitudes anxiety and misguided beliefs about mathematics This book is designed to support instructors who teach these students in

mathematics content for elementary teachers courses Elementary teachers need a richly developed understanding of the mathematics they are teaching in order to teach it effectively Providing them with the needed preparation is difficult but can be eased with a solid understanding of the mathematical concerns and limitations PSTs bring to the learning of mathematics and a familiarity with the standards and curricula topics PSTs will be expected to teach Chapter One makes the argument that elementary mathematics is not trivial This is followed by an analysis of four central issues related to the mathematical preparation of elementary teachers specifically 1 selecting creating modifying and implementing mathematical tasks 2 noticing understanding children s ways of thinking as a foundation for learning mathematics 3 developing mathematical habits of mind in PSTs and 4 understanding the role affect plays in the mathematical learning of PSTs The final chapter presents three international examples of programs that currently consider these factors in the implementation of their courses

Elementary Mathematics Pedagogical Content Knowledge James E. Schwartz, 2008 Schwartz Powerful Ideas in Elementary Mathematics Pedagogical Content Knowledge for Teachers 1 e ISBN 0205493750 This book would be a great tool for helping today s future elementary teachers acquire a gut level understanding of mathematics concepts Hester Lewellen Baldwin Wallace College OH The writing in this text is very clear and would easily be understood by the intended audience The real world examples put the various math concepts into a context that is easily understood The vignettes at the beginning of each chapter are interesting and they get the reader to begin thinking about the math concepts that will follow Each of the chapters seem to build on one another and the author often refers back to activities and concepts from previous chapters which is meaningful to the reader because it lets the reader know that the information they are learning builds their conceptual understanding of other mathematical concepts Melany L Rish University of South Carolina Aiken Organized around five key concepts or powerful ideas in mathematics this text presents elementary mathematics content in a concise and nonthreatening manner for teachers Designed to sharpen teachers mathematics pedagogical content knowledge the friendly writing style and vignettes relate math concepts to real life situations so that they may better present the content to their students The five powerful ideas composition decomposition relationships representation and context provide an organizing framework and highlight the interconnections between mathematics topics In addition the text thoroughly integrates discussion of the five NCTM process strands Features Icons highlighting the NCTM process standards appear throughout the book to indicate where the text relates to each of these Practice exercises and activities and their explanations reinforce math concepts presented in the text and provide an opportunity for reflection and practice Concise conversational chapters and opening vignettes present math contents simply enough for even the most math anxious pre service teachers

*Mathematical Reasoning for Elementary Teachers, Books a la Carte Edition* Calvin Long, Duane DeTemple, R. Millman, 2014-01-10 NOTE This edition features the same content as the traditional text in a convenient three hole punched loose leaf version Books a la Carte also offer a great value this format costs significantly less than a new

textbook Before purchasing check with your instructor or review your course syllabus to ensure that you select the correct ISBN For Books a la Carte editions that include MyLab TM or Mastering TM several versions may exist for each title including customized versions for individual schools and registrations are not transferable In addition you may need a Course ID provided by your instructor to register for and use MyLab or Mastering platforms For courses in Mathematics for Teachers or Mathematics for Future Elementary Teachers Fosters reasoning skills deep conceptual understanding and a positive attitude to aspiring elementary or middle school teachers Mathematical Reasoning for Elementary Teachers presents the mathematical content needed for teaching within the context of the elementary classroom The authors endeavor to answer the frequently asked question Why are we learning this by going beyond skill explanations to show how these concepts are implemented in the future classroom and what types of questions children may ask The Common Core State Standards for Mathematics are included This Media Update for the 7th Edition features Education Insights video program adapted from teacher education videos produced with assessment questions worksheets and an implementation guide Common Core in Action videos with assessment questions Common Core Assessment Analysis questions GeoGebra animations with assessment questions Assessment questions for lecture videos MindSet material Personalize learning with MyLab Math By combining trusted author content with digital tools and a flexible platform MyLab Math personalizes the learning experience and improves results for each student Note You are purchasing a standalone product MyLab Math does not come packaged with this content Students if interested in purchasing this title with MyLab Math ask your instructor to confirm the correct package ISBN and Course ID Instructors contact your Pearson representative for more information If you would like to purchase both the physical text and MyLab Math search for 0135167469 97801351674 Mathematical Reasoning for Elementary Teachers Plus MyLab Math Media Update Access Card Package 7 e NOT Books a la Carte Edition Package consists of 013475882X 9780134758824 Mathematical Reasoning for Elementary Teachers Media Update 013476675X 9780134766751 MyLab Math with Pearson eText Access Card for Mathematical Reasoning for Elementary Teachers Media Update

**Diversifying Mathematics Teaching: Advanced Educational Content And Methods For Prospective Elementary Teachers** Sergei Abramovich, 2017-02-24 What one takes away from this book is the notion that there s a lot of potential to do more with these students and the book stands as a resource for anyone who shares that opinion Books like Abramovich s are a welcome addition to our options as we try to do our best by these students and by extension their future students MAA Reviews The book is written to enhance the preparation of elementary teacher candidates by offering teaching ideas conducive to the development of deep understanding of concepts fundamental to the mathematics curriculum they are to teach It intends to show how the diversity of teaching methods stems from the knowledge of mathematics content and how the appreciation of this diversity opens a window to the teaching of extended content The book includes material that the author would have shared with teacher candidates should there have been more

instructional time than a 3 credit hour master's level course Elementary Mathematics Content and Methods provides. Thus the book can supplement a basic textbook for such a course by extending content and diversifying methods. Also the book can support graduate level mathematics education programs which have problem solving seminars courses in their curriculum. The book is well informed with available in English the mathematical standards and recommendations for teachers from Australia, Canada, Chile, England, Japan, Korea, Singapore, and the United States.

**Mathematics for Elementary Teachers: A Conceptual Approach** Laurie Burton, Ted Nelson, Albert Bennett, Joseph Ediger, 2015-01-23. The tenth edition of *Mathematics for Elementary Teachers: A Conceptual Approach* continues the innovative time tested approach of the previous editions: an emphasis on learning via specific realistic examples and the extensive use of visual aids, hands on activities, problem solving strategies, and active classroom participation. Features of the text focus on ensuring that prospective teachers will gain not only a deeper understanding of the mathematical concepts but also a better sense of the connections between their college math courses and their future teaching experiences along with helpful ideas for presenting math to their students in a way that will generate interest and enthusiasm. The text draws heavily on Common Core Standards and contains many pedagogical elements designed to foster reasoning, problem solving, and communication skills. Additionally, this text can be packaged with an activity set that corresponds to each section of the companion text *Mathematics for Elementary Teachers: An Activity Approach*, also by the Bennett, Burton, and Nelson team. *Mathematics for Elementary Teachers: An Activity Approach* can be used independently or along with its companion *Mathematics for Elementary Teachers: A Conceptual Approach*.

***Knowing and Teaching Elementary Mathematics*** Liping Ma, 2010-03-26. Studies of teachers in the U.S. often document insufficient subject matter knowledge in mathematics. Yet these studies give few examples of the knowledge teachers need to support teaching, particularly the kind of teaching demanded by recent reforms in mathematics education. *Knowing and Teaching Elementary Mathematics* describes the nature and development of the knowledge that elementary teachers need to become accomplished mathematics teachers and suggests why such knowledge seems more common in China than in the United States, despite the fact that Chinese teachers have less formal education than their U.S. counterparts. The anniversary edition of this bestselling volume includes the original studies that compare U.S. and Chinese elementary school teachers' mathematical understanding and offers a powerful framework for grasping the mathematical content necessary to understand and develop the thinking of school children. Highlighting notable changes in the field and the author's work, this new edition includes an updated preface, introduction, and key journal articles that frame and contextualize this seminal work.

***The Mathematics Education of Elementary Teachers*** Lynn C. Hart, Susan Oesterle, Susan Swars Auslander, Ann Kajander, 2016-07-29. This book supports instructors teaching mathematics content to prospective elementary teachers (PSTs). It addresses challenges like weak skills, anxiety, and negative attitudes. It covers key issues: task selection, understanding children's thinking, developing mathematical habits, and the role of affect in learning. **Mathematics for**

## **Elementary Teachers Via Problem Solving** Joanna Osborne Masingila, Frank K. Lester, Anne Miller Raymond, 2002

Appropriate for courses in Mathematics for Elementary Teachers in departments of education or as a service course offered by the mathematics dept for education majors This is the math content not the methods course Mathematics for Elementary Teachers via Problem Solving is comprised of two components The Student Activities Manual which is the primary tool for classroom use and the Student Resource Handbook This two part learning system for prospective K 6 teachers uses activities to help students develop a deep and lasting understanding of the mathematical concepts procedures and skills that are essential for teaching mathematics to elementary school children Elementary Teachers' Mathematics Instructional

Content Decision Making Heather A. Martin, 2006

*Mathematics for Elementary School Teachers: A Process Approach*

Mark A. Freitag, 2013-01-01 Freitag s MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS A PROCESS APPROACH

was developed using the five Content Standards from the NCTM Principles and Standards for School Mathematics and the Common Core State Standards for Mathematics Traditionally books for pre service elementary teachers have focused on problem solving However problem solving is not the only process through which mathematics is learned It is also learned through mathematical reasoning communication representation and connections Recent trends in mathematics education now advocate implementing all five processes as a vital part of learning and doing mathematics Consequently you need to have concrete experiences with these processes that you will be required to teach The goal of this book is to treat each of the processes equitably by using an approach in which the five processes serve as the central pedagogical theme Most of the examples exercises and activities are designed to either model the processes or to directly engage you in working with them As a result you will not only come to understand the different processes but also appreciate them as an integral to learning and doing mathematics If this broader view can be instilled you are more likely to give your students a more well rounded and holistic view of mathematics once you enter the classroom The content of the book is directly related to the mathematics that is taught in grades K 8 The purpose is not to reteach elementary mathematics Rather the intent is to look at the content from a theoretical or generalized point of view so that you can better understand the concepts and processes behind the mathematics you will teach In short the book focuses on the why behind the mathematics in addition to the how Available with InfoTrac Student Collections <http://gocengage.com/infotrac> Important Notice Media content referenced within the product description or the product text may not be available in the ebook version *Developing Mathematical Proficiency for Elementary Instruction* Yeping Li, Roger E. Howe, W. James Lewis, James J. Madden, 2021-04-23 The need to improve the mathematical proficiency of elementary teachers is well recognized and it has long been of interest to educators and researchers in the U S and many other countries But the specific proficiencies that elementary teachers need and the process of developing and improving them remain only partially conceptualized and not well validated empirically To improve this situation national workshops were organized at Texas A M University to generate focused discussions about this important

topic with participation of mathematicians mathematics educators and teachers Developing Mathematical Proficiency for Elementary Instruction is a collection of articles that grew out of those exciting cross disciplinary exchanges Developing Mathematical Proficiency for Elementary Instruction is organized to probe the specifics of mathematical proficiency that are important to elementary teachers during two separate but inter connected professional stages as pre service teachers in a preparation program and as in service teachers teaching mathematics in elementary classrooms From this rich and inspiring collection readers may better understand and possibly rethink their own practices and research in empowering elementary teachers mathematically and pedagogically as educators or researchers Elementary Mathematics Curriculum Materials

Janine T. Remillard,Ok-Kyeong Kim,2020-03-16 The book presents comparative analyses of five elementary mathematics curriculum programs used in the U S from three different perspectives the mathematical emphasis the pedagogical approaches and how authors communicate with teachers These perspectives comprise a framework for examining what curriculum materials are comprised of what is involved in reading and interpreting them and how curriculum authors can and do support teachers in this process Although the focus of the analysis is 5 programs used at a particular point in time this framework extends beyond these specific programs and illuminates the complexity of curriculum materials and their role in teaching in general Our analysis of the mathematical emphasis considers how the mathematics content is presented in each program in terms of sequencing the nature of mathematical tasks cognitive demand and ongoing practice and the way representations are used Our analysis of the pedagogical approach examines explicit and implicit messages about how students should interact with mathematics one another the teacher and the textbook around these mathematical ideas as well as the role of the teacher In order to examine how curriculum authors support teachers we analyze how they communicate with teachers and what they communicate about including the underlying mathematics noticing student thinking and rationale for design elements The volume includes a chapter on curriculum design decisions based on interviews with curriculum authors Mathematical Reasoning for Elementary Teachers, Global Edition Calvin T.

Long,Duane W. DeTemple,Richard S. Millman,2015-03-05 Mathematical Reasoning for Elementary Teachers presents the mathematical content needed for teaching within the context of the elementary classroom giving future teachers the motivation they need while also showing them the bigger picture of when they will use and teach the concepts The program also endeavours to answer the frequently asked Why are we learning this by going beyond skill explanations and showing the ways that these concepts are implemented in the future classroom and what types of questions children may ask Now updated to include the Common Core State Standards for Mathematics the text imparts mathematical reasoning skills a deep conceptual understanding and a positive attitude to those who aspire to be elementary or middle school teachers The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the



Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed **Understanding the Math You Teach** Anita C.

Burris,2005 Teaching strategies are grounded in the NCTM standards and illustrated with real student work In addition the author provides a full range of concrete developmental activities that encourage future teachers to make math make sense for themselves as well as for their students Believing that teachers who are comfortable with mathematics develop learners who are comfortable with mathematics this author empowers preservice preK 4 teachers to teach math confidently by laying a solid foundation of math concepts and building on that foundation with engaging meaningful standards based teaching methods Integrated in this unique combined approach to teaching mathematics is a thorough discussion of math manipulatives as well as the use of technologycomputer and otherwiseto assist today s mathematics teacher For educators aids and parents responsible for teaching Pre K to fourth grade math Elementary School Teachers' Conceptions of

Mathematics Content as a Potential Influence on Classroom Instruction Therese M. Kuhs,1980 Knowing and Learning Mathematics for Teaching National Research Council,Mathematical Sciences Education Board,Center for Education,Mathematics Teacher Preparation Content Workshop Program Steering Committee,2001-01-25 There are many questions about the mathematical preparation teachers need Recent recommendations from a variety of sources state that reforming teacher preparation in postsecondary institutions is central in providing quality mathematics education to all students The Mathematics Teacher Preparation Content Workshop examined this problem by considering two central questions What is the mathematical knowledge teachers need to know in order to teach well How can teachers develop the mathematical knowledge they need to teach well The Workshop activities focused on using actual acts of teaching such as examining student work designing tasks or posing questions as a medium for teacher learning The Workshop proceedings Knowing and Learning Mathematics for Teaching is a collection of the papers presented the activities and plenary sessions that took place **Research Advances in the Mathematical Education of Pre-service Elementary Teachers** Gabriel J.

Stylianides,Keiko Hino,2017-11-16 This book examines new trends and developments in research related to the mathematical education of pre service elementary teachers and explores the implications of these research advances for theory and practice in teacher education The book is organized around the following four overarching themes pre service teachers mathematics content and mathematics specific pedagogical preparation professional growth through activities and assessment tools used in mathematics teacher preparation programs pre service mathematics teachers knowledge and beliefs and perspectives on noticing in the preparation of elementary mathematics teachers Including contributions from researchers working in 11 different countries the book offers a forum for discussing and debating the state of the art regarding the mathematical preparation of pre service elementary teachers By presenting and discussing the findings of

research conducted in different countries the book offers also opportunities to readers to learn about varying teacher education practices around the world such as innovative practices in advancing or assessing teachers knowledge and beliefs similarities and differences in the formal mathematics education of teachers types of and routes in teacher education and factors that can influence similarities or differences

The AMTE Handbook of Mathematics Teacher Education Babette M. Benken, 2024-02-01 This new volume of The Association of Mathematics Teacher Educators AMTE Professional Book Series is a critical and timely resource that paves the way and guides the future of mathematics teacher education The collection of work in this AMTE Handbook of Mathematics Teacher Education reflects on research and what we know about how best to prepare and support both mathematics teachers and mathematics teacher educators and presents what is happening in the field Examples included in the 22 chapters highlight how we are preparing teachers across multiple contexts e g within district in content courses for the major and grade ranges K 20 and all chapters highlight relevant connections to the AMTE Standards for Preparing Teachers of Mathematics Most importantly this volume explores what we do not yet fully understand and where we are going In essence it considers how we can move the field forward The 95 contributing authors range from graduate students to those who have served as leaders in the field in multiple ways for many years Authors include K 12 teachers school administrators district leaders graduate students higher education faculty and professional development facilitators

**The Handbook of Mathematics Teacher Education: Volume 1**, 2008-01-01 The Handbook of Mathematics Teacher Education the first of its kind addresses the learning of mathematics teachers at all levels of schooling to teach mathematics and the provision of activity and programmes in which this learning can take place It consists of four volumes VOLUME 1 Knowledge and Beliefs in Mathematics Teaching and Teaching Development addresses the what of mathematics teacher education meaning knowledge for mathematics teaching and teaching development and consideration of associated beliefs As well as synthesizing research and practice over various dimensions of these issues it offers advice on best practice for teacher educators university decision makers and those involved in systemic policy development on teacher education

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