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Essentials of Elementary School Mathematics is an introductory text on the essentials of mathematics taught in elementary schools. It presents a systematic development of the mathematics of arithmetic.

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The definition of essential skills in mathematics has long been a goal of mathematics educators and others interested in the school mathematics curriculum. From the late 1970s forward, attempts have been made in the United States to provide a framework defining the basic essentials of mathematics that all students

Essential Skills in Mathematics

Math Essentials highlights Dr. Thompson's proven approach to teaching math and covers 40 key objectives correlated to the National Council of Teachers of Mathematics (NCTM) standards, including rounding whole numbers, finding equivalent fractions, multiplying two-digit whole numbers, solving word problems, interpreting line graphs, identifying polygons, estimating length and volume, and understanding time.

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Books

Essentials of Elementary School Mathematics is an introductory text on the essentials of mathematics taught in elementary schools. It presents a systematic development of the mathematics of arithmetic. A primary objective is to give students a background sufficient to understand and answer at an appropriate level the various quite penetrating questions asked by young students. Some examples and exercises are concerned primarily with pedagogical aspects of arithmetic. Comprised of 14 chapters, this book begins with an overview of the language of mathematics, focusing on concepts such as the conjunction (and); negation (not); disjunction (or); and conditional (if...then...). The discussion then turns to the theory of sets; the concept of binary operations; and recognition and identification of properties of various relations. The next section deals with the number systems of arithmetic: whole numbers, integers, rational numbers, and real numbers. Number theory and clock arithmetic are also examined, along with counting techniques and probability. The final section is devoted to motion geometry and analytic geometry. This

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monograph should be of interest to students and teachers of mathematicians at the elementary level.

Using national and state standards to guide your math program is just a start. You still have to decide how to apply the standards in your curriculum, determine when students should learn different content, and decide which programs and textbooks will help you make math come alive in the classroom. That's where this new ASCD resource comes in.

Priorities in Practice: The Essentials of Mathematics K-6 explores how educators--from classroom teachers to central office administrators--are tackling these major challenges in math education:

- * Emphasizing algebraic thinking, problem solving, and communication
- * Relying on research to guide the implementation of new teaching practices
- * Connecting math activities to larger purposes and everyday experiences

- * Differentiating instruction based on students' learning styles, interests, and readiness levels
- * Helping teachers use classroom assessment to guide instruction
- * Improving math teaching practices through teacher professional development and analysis of student work.

Whether you're working with an established math curriculum or rethinking your whole approach, here's an opportunity to see where your program stands in the context of current trends. This is the first volume in a new series from ASCD that explores

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tested methods of teaching and administrating curriculum in the major content areas. Note: This product listing is for the reflowable (ePub) version of the book.

MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS, 6E offers future teachers a comprehensive mathematics course designed to foster concept development through examples, investigations, and explorations. In this text, intended for the one- or two-semester course required of Education majors, Bassarear demonstrates that there are many paths to solving a problem, and sometimes problems have more than one solution. The author presents real-world problems—problems that require active learning in a method similar to how archaeologists explore an archaeological find: they carefully uncover the site, slowly revealing more and more of the structure. Visual icons throughout the main text allow instructors to easily connect content to the hands-on activities in the corresponding Explorations Manual. With this exposure, future teachers will be better able to assess student needs using diverse approaches. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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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,

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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.

During the past two decades, Chris Confer and Marco Ramirez have worked to deepen and improve mathematics instruction at schools around the country. The authors identify eight tested principles that transform what can be an overwhelming process into a set of comprehensible and concrete steps. Each phase of the change process is brought to life through the stories and perspectives of teachers, coaches, and principals. --from publisher description.

Students learning math are expected to do more than just solve problems; they must also be able to demonstrate their thinking and share their ideas, both orally and in writing. As many classroom teachers have

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discovered, these can be challenging tasks for students. The good news is, mathematical communication can be taught and mastered. In *Teaching Students to Communicate Mathematically*, Laney Sammons provides practical assistance for K-8 classroom teachers. Drawing on her vast knowledge and experience as a classroom teacher, she covers the basics of effective mathematical communication and offers specific strategies for teaching students how to speak and write about math. Sammons also presents useful suggestions for helping students incorporate correct vocabulary and appropriate representations when presenting their mathematical ideas. This must-have resource will help you help your students improve their understanding of and their skill and confidence in mathematical communication.

A short primer on each of the major math content areas that preservice and inservice elementary and middle school teachers are required to know. This book is an invaluable resource for the classroom teacher who needs both an overview for planning and help in answering student questions. Based broadly on the national standards, it gives the teacher general scientific information to cover most state's standards and to help prepare them for teacher certification exams. It also provides a strong overview of mathematical knowledge to allow the teacher to find information on important concepts, to see

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where significant moments in mathematical history fit chronologically, and to improve the teacher's understanding of mathematical ideas and concepts. Moreover, it saves professors from having to re-teach mathematics content so they can remain focused on the methods.

Give math routines a makeover in your classroom and make every minute count. Captivate your elementary students with these new, innovative, and ready-to-go mathematics routines! Trusted math expert John J. SanGiovanni details 20 classroom-proven practice routines to help you ignite student engagement, reinforce learning, and prepare students for the lesson ahead. Each quick and lively activity spurs mathematics discussion and provides a structure for talking about numbers, number concepts, and number sense. Designed to jump-start mathematics reasoning in any elementary classroom, the routines become your go-to materials for a year's work of daily plug-and-play short-burst reasoning and fluency instruction.

Written by leaders in the field, this best-selling book will guide teachers as they help all Pre-K -- 8 learners make sense of math by supporting their own mathematical understanding and effective planning and instruction. Elementary and Middle School Mathematics: Teaching Developmentally was written to help teacher candidates and

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practicing teachers understand mathematics and become more confident in their ability to teach the subject to children in pre-K through eighth grade. Structured for easy reference, offering 23 chapters reflecting the latest research to consult throughout one's teaching career, the revised edition infuses NCTM and Common Core State Standards with the benefits of problem-based mathematics instruction. The Eighth Edition better prepares teachers to teach mathematics to all learners by including new strategies for English language learners and students with disabilities. The amount of coverage relating to mathematics in early childhood has been increased. More activities infusing technology and samples of authentic student work are introduced. Increased emphasis on formative assessment, showcased with an icon and notes throughout, guide teachers to master this difficult practice.

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