
Elementary Mathematics Journal Articles

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Developing Mathematical Proficiency for Elementary Instruction
Corwin Press

"This book provides teachers, faculty and educational leaders with an opportunity to share their recent research with focus on best teaching practices through the use of online platforms"--

Teaching Learners Who Struggle with Mathematics ASCD

For Elementary Mathematics Methods or Middle School

Mathematics Methods Covers preK-8 Written by leaders in the field,

this best-selling book will guide teachers as they help all PreK-8 learners make sense of math by supporting their own mathematical understanding and cultivating effective planning and instruction. Elementary and Middle School Mathematics: Teaching Developmentally provides an unparalleled depth of ideas and discussion to help teachers develop a real understanding of the mathematics they will teach and the most effective methods of teaching the various mathematics topics. This text reflects the NCTM and Common Core State Standards and the benefits of problem-based mathematics instruction.

The Five Practices in Practice [Elementary] Teachers College Press

When the queen of her bugs demands that her army march in even lines, Private Joe divides the marchers into more and more lines so that he will not be left out of the parade.

Handbook of Research on Learning and Instruction Corwin Press

Elementary and Middle School Mathematics: Teaching Developmentally provides an unparalleled depth of ideas and discussion to help teachers develop a real understanding of the mathematics they will teach and the most effective methods of teaching the various mathematics topics. This text reflects the NCTM and Common Core State Standards and the benefits of problem-based mathematics instruction. It is structured for maximum flexibility, offering 23 chapters that may be mixed and matched to fit any course or teaching approach. This comprehensive, practical text offers readers a strong theoretical perspective reflecting the most current research on how students learn mathematics, ways to best teach it, and many problem-based activities to engage students. An important reference to consult throughout a teaching career, Van de Walle, Karp and Bay-William's book helps teachers and their preK-8 students find the excitement that happens when mathematics makes sense.

Elementary Mathematics Specialists World Scientific
This book is designed for elementary and middle school mathematics methods courses and for K-8 mathematics teacher professional development programs. It describes a new cognitive mathematics teaching and learning method: Model-Strategy-Application (MSA) approach. The aim of this book is to help pre-service and in-service teachers develop deep pedagogical content knowledge in a structured and systematic manner, and supports them in teaching mathematics and assessing student thinking effectively. The book focuses on developing students' mathematics proficiency in the three components of conceptual understanding, procedural fluency, and competence in word problem solving through the MSA approach in every content area. To help students learn a mathematics concept with deep understanding, a variety of concrete or visual

models are developed to address the mathematics concept; to build fluency in procedure and computation corresponding to the concept, various computational strategies including basic and specific techniques are developed; to learn how to apply the conceptual understanding and strategies to word problem solving, applications of different types and levels of word problems are introduced. Catalyzing Change in Early Childhood and Elementary Mathematics Taylor & Francis

The new edition of this best-selling text includes a new focus on active and collaborative learning, while maintaining its emphasis on developing skills and concepts. With a wealth of pedagogical tools, as well as relevant discussions of standard curricula and assessments, this book will be a valuable textbook and reference for future teachers. With this revision, two new chapters are included to address the needs of future middle school teachers, in accordance to the NCTM Focal Points document. This is a standalone book, if you want the book/access card order the ISBN listed below: 0321573307 / 9780321573308 Problem Solving Approach to Mathematics for Elementary School Teachers plus MyMathLab Student Access Kit, A Package consists of: 0321431308 / 9780321431301 MyMathLab/MyStatLab -- Glue-in Access 0321570553 / 9780321570550 Problem Solving Approach to Mathematics for Elementary School Teachers, A 0321654064 / 9780321654069 MyMathLab Inside Star Sticker

Principles to Actions Corwin Press

A textbook for students of elementary education. Part One outlines "Elementary Mathematics for the 21st Century" and Part Two covers "Concepts and Skills in Elementary Mathematics."

Teaching Elementary and Middle School

Mathematics Using the MSA Approach Routledge

This book reflects the author's experience in teaching a mathematics content course for pre-service elementary teachers. The book addresses a number of recommendations of the Conference Board of the Mathematical Sciences for the preparation of teachers demonstrating how abstract mathematical concepts can be motivated by concrete activities. Such an approach, when enhanced by the use of technology, makes it easier for the teachers to grasp the meaning of generalization, formal proof, and the creation of an increasing number of concepts on higher levels of abstraction. A strong experiential component of the book made possible by the use of manipulative materials and digital technology such as spreadsheets, The Geometer's Sketchpad, Graphing Calculator 3.5 (produced by Pacific Tech), and Kid Pix Studio Deluxe makes it possible to balance informal and formal

approaches to mathematics, allowing the teachers to learn how the two approaches complement each other. Classroom observations of the teachers' learning mathematics as a combination of theory and experiment confirm that this approach elevates one's mathematical understanding to a higher ground. The book not only shows the importance of mathematics content knowledge for teachers but better still, how this knowledge can be gradually developed in the context of exploring grade-appropriate activities and tasks and using computational and manipulative environments to support these explorations. Most of the chapters are motivated by a problem/activity typically found in the elementary mathematics curricula and/or standards (either National or New York State - the context in which the author prepares teachers). By exploring such problems in depth, the teachers can learn fundamental mathematical concepts and ideas hidden within a seemingly mundane problem/activity. The need to have experience in going beyond traditional expectations for learning is due to the constructivist orientation of contemporary mathematics pedagogy that encourages

students to ask questions about mathematics they study. Each chapter includes an activity set that can be used for the development of the variety of assignments for the teachers. The material included in the book is original in terms of the approach used to teach mathematics to the teachers and it is based on a number of journal articles published by the author in the United States and elsewhere. Mathematics educators who are interested in integrating hands-on activities and digital technology into the teaching of mathematics will find this book useful. Mathematicians who teach mathematics to the teachers as part of their teaching load will be interested in the material included in the book as it connects childhood mathematics content and mathematics for the teachers.

Mathematical Mindsets National Council of Teachers of Mathematics, Incorporated This text offers guidance to teachers, mathematics coaches, administrators, parents, and policymakers. This book: provides a research-based description of eight essential mathematics teaching practices ; describes the conditions, structures, and policies that must support

the teaching practices ; builds on NCTM's Principles and Standards for School Mathematics and supports implementation of the Common Core State Standards for Mathematics to attain much higher levels of mathematics achievement for all students ; identifies obstacles, unproductive and productive beliefs, and key actions that must be understood, acknowledged, and addressed by all stakeholders ; encourages teachers of mathematics to engage students in mathematical thinking, reasoning, and sense making to significantly strengthen teaching and learning.

Helping Children Learn Mathematics Routledge Mastering the basic facts for addition, subtraction, multiplication, and division is an essential goal for all students. Most educators also agree that success at higher levels of math hinges on this fundamental skill. But what's the best way to get there? Are flash cards, drills, and timed tests the answer? If so, then why do students go into the upper elementary grades (and beyond) still counting on their fingers or experiencing math anxiety? What does research say about teaching basic math facts so they will stick? In *Math Fact Fluency*,

experts Jennifer Bay-Williams and Gina Kling provide the answers to these questions—and so much more. This book offers everything a teacher needs to teach, assess, and communicate with parents about basic math fact instruction, including The five fundamentals of fact fluency, which provide a research-based framework for effective instruction in the basic facts. Strategies students can use to find facts that are not yet committed to memory. More than 40 easy-to-make, easy-to-use games that provide engaging fact practice. More than 20 assessment tools that provide useful data on fact fluency and mastery. Suggestions and strategies for collaborating with families to help their children master the basic math facts. Math Fact Fluency is an indispensable guide for any educator who needs to teach basic facts. This approach to facts instruction, grounded in years of research, will transform students' learning of basic facts and help them become more confident, adept, and successful at math.

Teaching by Design in Elementary

Mathematics, Grades 2-3 Corwin Press

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.

Successfully Orchestrating Mathematics Discussions in Your Elementary Classroom

Springer Nature

Strengthen mathematics lessons through collaborative learning with this research-based professional development program.

Included are grade-appropriate number and operations topics aligned with the Common Core State Standards.

Teaching Developmentally IAP

During the past 30 years, researchers have made exciting progress in the science of learning (i.e., how people learn) and the science of instruction (i.e., how to help people learn). This second edition of the *Handbook of Research on Learning and Instruction* is intended to provide an overview of these research advances. With chapters written by leading researchers from around the world, this volume examines learning and instruction in a variety of learning environments including in classrooms and out of classrooms, and with a variety of learners including K-16 students and adult learners. Contributors to this volume demonstrate how and why educational practice should be guided by research evidence concerning what works in instruction. The *Handbook* is written at a level that is appropriate for graduate

students, researchers, and practitioners interested in an evidence-based approach to learning and instruction. The book is divided into two sections: learning and instruction. The learning section consists of chapters on how people learn in reading, writing, mathematics, science, history, second language, and physical education, as well as how people acquire the knowledge and processes required for critical thinking, studying, self-regulation, and motivation. The instruction section consists of chapters on effective instructional methods—feedback, examples, questioning, tutoring, visualizations, simulations, inquiry, discussion, collaboration, peer modeling, and adaptive instruction. Each chapter in this second edition of the *Handbook* has been thoroughly revised to integrate recent advances in the field of educational psychology. Two chapters have been added to reflect advances in both helping students develop learning strategies and using technology to individualize instruction. As with the first edition, this updated volume showcases the best research being done on learning and instruction by traversing a broad array of academic domains, learning

constructs, and instructional methods.
Wadsworth Publishing Company
"Activating Math Talk, outlines and enumerates on the practice of high-quality discourse specific to the math classroom as both a guide for teachers who learned mathematics differently and a road map to opening constructive and productive dialogue between students and teachers"--

Elementary and Middle School Mathematics: Pearson New International Edition Knowing and Teaching Elementary Mathematics Teachers' Understanding of Fundamental Mathematics in China and the United States

In this important new book for pre- and in-service teachers, early math experts Douglas Clements and Julie Sarama show how "learning trajectories" help teachers become more effective professionals. By opening up new windows to seeing young children and the inherent delight and curiosity behind their mathematical reasoning, learning trajectories ultimately make teaching more joyous. They help teachers understand the varying level of knowledge and thinking of their classes and the individuals within them as key in serving the needs of all children. In straightforward, no-nonsense language, this book summarizes what is known about how children learn mathematics, and how to build on what they know to realize more

effective teaching practice. It will help teachers understand the learning trajectories of early mathematics and become quintessential professionals.

Teaching by Design in Elementary Mathematics, Grades K-1 Guilford Publications

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.

Unleashing Students' Potential through Creative Math, Inspiring Messages and Innovative Teaching Corwin Press

This volume shows how the history and practices of mathematics education in Korea (from Volume 7) have been influenced by Japan, America and other countries, developing into the unique Korean style of mathematics education. Research content and practices currently being conducted are also covered, as well as topics like teacher education, special mathematics education, research trends and some perspectives towards the future of mathematics education in Korea.

Going Beyond Key Words to Make Sense of Word Problems, Grades 3-5 Routledge

"Catalyzing Change in Elementary and Early Childhood Mathematics presents four key recommendations to guide conversations that take a critical look at current mathematics programs in order to identify practices, policies, and instructional approaches that hinder any child from becoming confident and capable mathematics learners. The book uses classroom vignettes and student work to illustrate how the eight effective mathematics

teaching practices form a framework for equitable instruction and to discuss the teaching of important mathematics topics in number and operations, early algebra, geometry, and data"--

Math Fact Fluency Information Science Reference
A schoolwide solution for mathematics success! When "rules" seem to change from year to year, mathematics can seem like a disconnected mystery for students. Clear up the confusion with a Mathematics Whole-School Agreement! Expanded from the highly popular "Rules that Expire" series of NCTM articles, this essential guide leads educators through the collaborative step-by-step process of establishing a coherent and consistent learner-centered and equitable approach to mathematics instruction. You'll learn to avoid "rules that expire"—tricks that may seem to help students in one grade but hurt in the long run. Features include · Abundant grade-specific examples · Effective working plans for sustainability · Barrier-busting tips, to-dos, and try-it-outs · PLC prompts and discussion points

Teaching Developmentally John Wiley & Sons
Confusing Textbooks? Missed Lectures? Not Enough Time? Fortunately for you, there's Schaum's Outlines. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's

is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up-to-date developments in your course field In-depth review of practices and applications Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time-and get your best test scores! Schaum's Outlines-Problem Solved.