

teaching math to preschoolers

teaching math to preschoolers is a foundational step in early childhood education that sets the stage for future academic success. Introducing mathematical concepts at an early age helps young children develop critical thinking, problem-solving skills, and a positive attitude toward numbers and patterns. This article explores effective strategies for teaching math to preschoolers, highlighting age-appropriate activities and the benefits of early math learning. It also discusses common challenges educators and parents might face and offers practical tips to overcome them. Emphasizing hands-on learning and play-based approaches, the article aims to provide a comprehensive guide for fostering a strong math foundation in preschool-aged children. The following sections will cover various aspects of early math education, from understanding developmental readiness to integrating math into everyday experiences.

- Understanding Developmental Readiness for Math
- Effective Strategies for Teaching Math to Preschoolers
- Engaging Math Activities and Games
- Incorporating Math into Daily Routines
- Overcoming Challenges in Early Math Education

Understanding Developmental Readiness for Math

Before teaching math to preschoolers, it is essential to recognize their developmental readiness. Children at this age are beginning to develop cognitive skills that support mathematical thinking, such as recognizing patterns, counting, and understanding spatial relationships. Early math learning focuses on building these foundational skills in a way that is appropriate for their developmental stage. Understanding these milestones helps educators and parents tailor instruction to match the child's abilities and interests, ensuring an effective and enjoyable learning experience.

Cognitive and Motor Skills Development

Preschoolers are developing both cognitive and fine motor skills that facilitate math learning. Cognitive abilities such as memory, attention, and problem-solving are crucial for grasping basic math concepts. Simultaneously, fine motor skills support activities like counting with fingers, manipulating objects, and drawing shapes. Recognizing the interplay between these skills allows for the design of math activities that promote comprehensive development.

Recognizing Early Math Concepts

At the preschool level, children begin to understand early math concepts such as number recognition,

counting sequences, size comparison, and shape identification. These concepts serve as building blocks for more complex math skills learned in later years. Teaching math to preschoolers involves reinforcing these ideas through repetition, hands-on experiences, and meaningful interactions.

Effective Strategies for Teaching Math to Preschoolers

Implementing effective strategies is key to successful math instruction for young children. Teaching math to preschoolers should be interactive, engaging, and tailored to their developmental needs. Utilizing a variety of instructional approaches helps maintain children's interest and addresses different learning styles. Emphasizing exploration, discovery, and play supports natural curiosity and encourages a positive attitude toward math.

Use of Manipulatives and Visual Aids

Manipulatives such as blocks, counting beads, and shape sorters provide tangible ways for preschoolers to explore mathematical concepts. Visual aids, including charts and picture cards, support understanding by making abstract ideas concrete. These tools help children visualize numbers, patterns, and relationships, making math more accessible and enjoyable.

Incorporating Storytelling and Real-Life Contexts

Teaching math through storytelling and real-life scenarios helps preschoolers relate to concepts in meaningful ways. Stories involving counting characters, sorting objects, or measuring ingredients capture attention and provide context for learning. Real-life examples, such as counting toys or setting the table, demonstrate practical applications of math skills.

Encouraging Active Participation and Inquiry

Active participation engages children in the learning process and fosters deeper understanding. Asking open-ended questions, encouraging children to explain their thinking, and promoting problem-solving exercises support critical thinking and communication skills. This approach helps preschoolers develop confidence and a sense of ownership over their math learning.

Engaging Math Activities and Games

Incorporating fun and interactive activities is an effective way to teach math to preschoolers. Games and hands-on experiences stimulate interest and reinforce learning by providing opportunities for practice and experimentation. Age-appropriate math activities can cover a range of skills, including counting, sorting, pattern recognition, and basic addition and subtraction.

Counting and Number Recognition Games

Simple games that involve counting objects, matching numbers, or sequencing number cards enhance number sense. Examples include counting blocks during play, number hopscotch, and matching games where children pair numeral cards with corresponding quantities.

Shape and Pattern Activities

Activities that focus on identifying and creating shapes and patterns develop spatial awareness and logical thinking. Children can engage in shape puzzles, pattern bead threading, or sorting objects by shape and color to deepen their understanding.

Measurement and Comparison Games

Introducing concepts of size, length, and volume through games helps preschoolers grasp measurement basics. Activities such as comparing the heights of classmates, filling containers with sand or water, and using non-standard units for measuring objects encourage hands-on learning.

Sample List of Engaging Math Activities

- Counting everyday objects like snacks or toys
- Sorting buttons by size, color, or shape
- Creating simple patterns with colored blocks
- Playing board games that require counting moves
- Using measuring cups in sensory bins

Incorporating Math into Daily Routines

Integrating math concepts into daily routines provides continuous and natural learning opportunities. Teaching math to preschoolers outside of formal lessons helps reinforce skills through repetition and practical application. Everyday activities offer numerous chances to explore numbers, shapes, and patterns in meaningful contexts.

Math in Mealtime and Cooking

Mealtime is an ideal setting for introducing measurement, counting, and sequencing. Children can count utensils, measure ingredients, and follow simple recipes that involve number sequences. These activities combine practical skills with math learning in a familiar environment.

Using Nature and Environment

The natural world offers abundant resources for math exploration. Counting leaves, identifying shapes in clouds, and comparing sizes of rocks or flowers encourage observational skills and mathematical thinking. Outdoor activities stimulate curiosity and provide diverse contexts for learning.

Classroom and Home Math Integration

Incorporating math into classroom routines such as calendar time, attendance counting, and organizing materials strengthens familiarity with numbers and sequences. Similarly, at home, parents can encourage children to count steps, sort laundry, or arrange toys by size. Consistent exposure supports retention and skill development.

Overcoming Challenges in Early Math Education

While teaching math to preschoolers offers numerous benefits, certain challenges may arise. Addressing these obstacles is crucial for creating a positive and effective learning environment. Understanding common difficulties and implementing supportive strategies helps ensure that all children can succeed in early math learning.

Addressing Math Anxiety and Resistance

Some preschoolers may exhibit reluctance or anxiety toward math activities. Introducing math concepts through play and positive reinforcement helps reduce negative feelings. Encouraging curiosity rather than emphasizing accuracy fosters a growth mindset and builds confidence.

Adapting to Diverse Learning Styles and Needs

Children have varied learning preferences and developmental paces. Differentiated instruction that includes visual, auditory, and kinesthetic approaches accommodates these differences. Providing additional support or challenges as needed ensures that all learners remain engaged and progress effectively.

Ensuring Consistency and Patience

Teaching math to preschoolers requires ongoing effort and patience. Regular practice and reinforcement help solidify understanding, but progress may be gradual. Maintaining a consistent routine and celebrating small achievements promotes motivation and sustained interest in math learning.

Frequently Asked Questions

What are effective methods for teaching math to preschoolers?

Effective methods include using hands-on activities, incorporating math into daily routines, using visual aids like blocks and shapes, and making learning fun through games and songs.

At what age should parents start introducing math concepts to preschoolers?

Parents can start introducing basic math concepts such as counting, shapes, and patterns as early as 2 to 3 years old, tailoring activities to the child's developmental level.

How can I make learning math enjoyable for preschoolers?

Use playful activities like counting objects during playtime, singing number songs, interactive storybooks with numbers, and incorporating math into arts and crafts to keep preschoolers engaged and interested.

What are some simple math activities suitable for preschoolers?

Simple activities include counting toys, sorting objects by size or color, identifying shapes in the environment, creating patterns with beads or blocks, and playing number matching games.

How does teaching math early benefit preschoolers?

Early math skills help develop critical thinking, problem-solving abilities, and prepare children for formal schooling by building a strong foundation in numeracy and logical reasoning.

What role do parents play in teaching math to preschoolers?

Parents can reinforce math concepts at home by engaging in everyday math conversations, providing materials for hands-on learning, encouraging curiosity, and supporting a positive attitude toward math.

How can educators assess preschoolers' math understanding?

Educators can assess understanding through observation during play, asking open-ended questions, using simple quizzes or games, and noting how children solve problems or recognize patterns and numbers.

Additional Resources

1. *Teaching Math to Little Learners*

This book offers practical strategies for introducing basic math concepts to preschoolers through engaging activities and play. It emphasizes hands-on learning and the use of everyday objects to make math relatable. Teachers and parents will find useful tips for fostering a positive attitude towards numbers and problem-solving from an early age.

2. *Math Play for Early Childhood*

Focused on playful learning, this book provides a variety of games and interactive exercises designed to build foundational math skills. It highlights the importance of creativity and exploration in developing number sense. The activities encourage collaboration and communication among young children.

3. *Counting and Patterns: A Preschool Math Guide*

This guide delves into teaching counting, patterns, and sequencing, essential skills for preschoolers. It includes step-by-step instructions and visual aids to help educators implement lessons effectively. The book also discusses how to assess children's understanding in a developmentally appropriate way.

4. *Numbers Everywhere! Math for Preschoolers*

A vibrant and colorful resource, this book introduces numbers through stories, songs, and everyday scenarios. It aims to make math fun and accessible, reducing anxiety around learning numbers. Activities are designed to support diverse learning styles and cultural backgrounds.

5. *Early Math Skills: Building Blocks for Preschool*

This comprehensive book covers a wide range of early math topics including shapes, measurement, and spatial awareness. It provides research-based approaches and encourages integrating math into daily routines. The book also offers advice on creating a math-rich environment at home and in the classroom.

6. *Preschool Math Made Simple*

Ideal for both new and experienced teachers, this book breaks down complex math concepts into simple, understandable lessons. It includes reproducible worksheets and interactive activities that promote critical thinking. The author stresses the importance of patience and encouragement in early math education.

7. *Math Through Movement: Active Learning for Preschoolers*

This innovative book combines physical activity with math learning, helping children grasp concepts through movement. It suggests exercises and games that develop counting, sorting, and pattern recognition skills. The approach supports kinesthetic learners and helps maintain children's engagement.

8. *Hands-On Math for Preschoolers*

Focusing on tactile learning, this book provides numerous craft projects and manipulatives to teach math concepts. It encourages sensory exploration and experimentation to deepen understanding. The activities are designed to be adaptable for different skill levels and classroom settings.

9. *Early Childhood Math: A Parent's Guide*

Targeted at parents, this book offers simple ways to incorporate math learning into everyday family life. It provides tips for turning routine activities like cooking and shopping into math lessons. The

book aims to build parental confidence in supporting their child's early math development.

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teaching math to preschoolers: The Path to Early Math Ingrid Crowther, 2021-09 Whether you are a teacher looking for ways to strengthen the math learning in your early childhood classroom, an educator in a community of practice who wants to learn more about teaching math in developmentally appropriate ways, or a teacher-educator who wants to offer students an easy-to-use reference and guide for helping young children develop their math competencies and skills, this text will help you make math learning a fun and worthwhile activity in your setting. Filled with photographs of children engaged in real experiences that demonstrate specific math concepts, chapters follow a developmental order. * One-to-one correspondence * Forming sets * Object counting * Patterning * Measurement * Two- and three-dimensional geometric shapes * Parts and wholes * Computation

teaching math to preschoolers: Learning and Teaching Early Math Douglas H. Clements, Julie Sarama, 2014-05-23 In this important book for pre- and in-service teachers, early math experts Douglas Clements and Julie Sarama show how learning trajectories help diagnose a child's level of mathematical understanding and provide guidance for teaching. By focusing on the inherent delight and curiosity behind young children's mathematical reasoning, learning trajectories ultimately make teaching more joyous. They help teachers understand the varying levels of knowledge exhibited by individual students, which in turn allows them to better meet the learning needs of all children. Using straightforward, no-nonsense language, this book summarizes the current research about how children learn mathematics, and how to build on what children already know to realize more effective teaching. This second edition of Learning and Teaching Early Math remains the definitive, research-based resource to help teachers understand the learning trajectories of early mathematics and become quintessential professionals. Updates to the new edition include: • Explicit connections between Learning Trajectories and the new Common Core State Standards. • New coverage of patterns and patterning. • Incorporation of hundreds of recent research studies.

teaching math to preschoolers: Preschool Math Vicky Shiotsu, 2006-05 Children will learn basic math concepts as they play, experiment, chant create and cook. Games introduce the skills of counting, one-to-one correspondence, sorting, number recognition, patterning and ordinal numbers

teaching math to preschoolers: Teaching Preschool and Kindergarten Math Ann Carlyle, Brenda Mercado, 2012 Through an exciting multimedia format, Teaching Preschool and Kindergarten Math takes you into an early childhood classroom for a seeing is believing look at how to create a focused, successful mathematics program while simultaneously deepening your knowledge of the mathematical ideas that need to be developed at an early age. You'll find: * 26 video segments filmed in an actual classroom; * more than 150 lessons and investigations; * dozens of ideas for encouraging and supporting math talk with young children; * numerous formative assessment recommendations including videos of one-on-one interviews; * research-based strategies and insights to student misconceptions; * reproducibles (also available in a downloadable, printable format at www.mathsolutions.com/teachingpreschoolreproducibles), and more. The demands of the Common Core State Standards require students to have a stronger grounding in math concepts

early on. In addition, research indicates that mastery of math concepts in early childhood is the most powerful predictor of later learning. These factors and more make Teaching Preschool and Kindergarten Math an essential go-to resource for the teaching and learning of early childhood mathematics.

teaching math to preschoolers: *Teaching Young Children Mathematics* Janice Minetola, Robert Ziegenfuss, J. Kent Chrisman, 2013-09-11 *Teaching Young Children Mathematics* provides a comprehensive overview of mathematics instruction in the early childhood classroom. Taking into account family differences, language barriers, and the presence of special needs students in many classrooms throughout the U.S., this textbook situates best practices for mathematics instruction within the larger frameworks of federal and state standards as well as contemporary understandings of child development. Key topics covered include: developmental information of conceptual understanding in mathematics from birth through 3rd grade, use of national and state standards in math, including the new Common Core State Standards, information for adapting ideas to meet special needs and English Language Learners, literacy connections in each chapter, 'real-world' connections to the content, and information for family connections to the content.

teaching math to preschoolers: *Teaching Young Children Mathematics* Sydney L. Schwartz, 2005-09-30 Children learn mathematics most effectively in contexts that are meaningful to them. Realizing the potential of these contexts for fostering young children's mathematical learning while nurturing and challenging them, requires knowledge of mathematics as well as of child development. Avoiding the debates surrounding hands-on learning vs. direct instruction, the author focuses on the value of different contexts for learning, and illustrates ways to genuinely engage children as active learners. The work is rich with examples of children's interactions with each other and with adults as they utilize and extend their understanding of mathematics. Examples and guidelines for developing lessons and activities will be useful to educators and parents. Chapters explore how we underestimate young children's mathematical capabilities; how appropriate sequencing of learning and building on prior knowledge will enhance understanding; what teachers, including parent-teachers, need to know; and high-stakes testing. This is a work that brings together the connections between knowing the basics and constructing knowledge in accessible and practical ways.

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teaching math to preschoolers: *Teaching Children Mathematics*, 2009-08

teaching math to preschoolers: *Teaching Mathematics to Deaf Children* Terezinha Nunes, 2004-09-24 From an early age, deaf children excel in thinking about and remembering what they learn through visual spatial instruction. This strength in information processing can be used in the mathematics classroom to achieve better learning outcomes. This book discusses ways to teach deaf children about the four arithmetic operations through spatial representation in problem solving. Examples for the teaching of fractions and graphs are also included. These visual representations are useful to support the children's understanding of mathematical concepts and to promote peer collaboration. The teaching programme was tested with deaf children in six schools with excellent results: the children in the project made significantly more progress in one school year than expected for either deaf and hearing children over the same time. This work was made possible through the generous support of The Nuffield Foundation.

teaching math to preschoolers: *Math Instruction for Students with Learning Difficulties* Susan Perry Gurganus, 2021-11-29 This richly updated third edition of *Math Instruction for Students with Learning Difficulties* presents a research-based approach to mathematics instruction designed to build confidence and competence in preservice and inservice PreK- 12 teachers. Referencing benchmarks of both the National Council of Teachers of Mathematics and Common Core State

Standards for Mathematics, this essential text addresses teacher and student attitudes towards mathematics as well as language issues, specific mathematics disabilities, prior experiences, and cognitive and metacognitive factors. Chapters on assessment and instruction precede strands that focus on critical concepts. Replete with suggestions for class activities and field extensions, the new edition features current research across topics and an innovative thread throughout chapters and strands: multi-tiered systems of support as they apply to mathematics instruction.

teaching math to preschoolers: Teaching STEM in the Preschool Classroom Alissa A. Lange, Kimberly Brenneman, Hagit Mano, 2019 This book is designed to build educators' confidence and competence so they can bring STEM to life with young children. The authors encourage pre-K teachers to discover the value of engaging preschoolers in scientific inquiry, technological explorations, engineering challenges, and math experiences based on learning trajectories. They explain the big ideas in STEM, emphasizing teaching strategies that support these activities (such as language-rich STEM interactions), and describe ways to integrate concepts across disciplines. The text features research-based resources, examples of field-tested activities, and highlights from the classroom. Drawing from a professional development model that was developed with funding from the National Science Foundation, this book is an essential resource for anyone who wants to support preschool children to be STEM thinkers and doers. "I have read a lot of really good early childhood science education books over the years, and as far as I am concerned, this is the best one yet." —From the Foreword by Betty Zan, University of Northern Iowa "This excellent book shows that the important ideas of STEM are within every teacher's and child's grasp." —Douglas Clements, University of Denver "Teaches STEM content while sharing strategies for robust and developmentally appropriate instructional practice. This book is the real deal!" —Beth Graue, University of Wisconsin-Madison

teaching math to preschoolers: Teaching Mathematics as to be Meaningful - Foregrounding Play and Children's Perspectives Hanna Palmér, Camilla Björklund, Elin Reikerås, Jessica Elofsson, 2023-10-29 This open access book's theme is Teaching mathematics as to be meaningful - foregrounding children's play and perspectives. It discusses the relation between teachers, children and mathematical content within the context of play with a particular focus on the framing of these relations within this context, which is an important theme in the debate on whether teaching should be integrated with or separated from children's play. The work further addresses meaningfulness in the learning process, particularly from the child's perspective. Globally, most guidelines and curricula for early childhood education mention play as one of the key features for young children's learning. Still, there are quite different views on the definitions of play and in what ways play should become part of children's learning. The chapters of the book mirror the research topics presented at the fifth POEM conference in May 2022 divided into four sub-themes: Play and learning, Children's perspectives on mathematics, Teachers' competencies and Theorizing aspects of early mathematics education.

teaching math to preschoolers: Understanding the Math We Teach and How to Teach It, K-8 Small Marian, 2025-08-26 Dr. Marian Small has written a landmark book for a wide range of educational settings and audiences, from pre-service math methods courses to ongoing professional learning for experienced teachers. *Understanding the Math We Teach and How to Teach It, K-8* focuses on the big mathematical ideas in elementary and middle school grade levels and shows how to teach those concepts using a student-centered, problem-solving approach. Comprehensive and Readable: Dr. Small helps all teachers deepen their content knowledge by illustrating core mathematical themes with sample problems, clear visuals, and plain language Big Focus on Student Thinking: The book's tools, models, and discussion questions are designed to understand student thinking and nudge it forward. Particularly popular features include charts listing common student misconceptions and ways to address them, a table of suggested manipulatives for each topic, and a list of related children's book *Implementing Standards That Make Sense*: By focusing on key mathematics principles, *Understanding the Math We Teach and How to Teach It, K-8* helps to explain the whys of state standards and provides teachers with a deeper understanding of number

sense, operations, algebraic thinking, geometry, and other critical topics Dr. Small, a former dean with more than 40 years in the field, conceived the book as an essential guide for teachers throughout their career: Many teachers who teach at the K-8 level have not had the luxury of specialist training in mathematics, yet they are expected to teach an increasingly sophisticated curriculum to an increasingly diverse student population in a climate where there are heightened public expectations. They deserve help.

teaching math to preschoolers: Engaging Families as Children's First Mathematics

Educators Sivan Phillipson, Ann Gervasoni, Peter Sullivan, 2016-11-21 This book explores how professionals can engage and inspire parents to support their young children's mathematics learning. Bringing together international experts, researchers and scholars, it proposes a framework for engaging with and supporting parents, including those who are less aware of the crucial development of children's mathematical skills in the early years. Focusing on mathematics learning from birth to 5 years, the book's underlying assumption is that it is possible to offer guidance to professionals working with families with young children concerning how to engage and support families in the area of mathematics learning, including those families who seem alienated from education services. Specifically, the respective chapters present a framework for understanding children's early mathematical development and the important role of families in this regard. They describe effective strategies for engaging families in their children's mathematics learning, including those who are marginalised and experience multiple disadvantages, so that all families can best support their children's mathematical learning and their development of positive attitudes towards learning. In closing, hurdles and opportunities within the systems surrounding family engagement are addressed.

teaching math to preschoolers: *Young Children's Amazing Math* Herbert P. Ginsburg, 2025

Explore young children's amazing everyday math. Ginsburg uses words and over 75 short videos to illustrate and explain the widespread development of informal knowledge about number, shape, space, pattern, and measurement. Some videos show individual children, from about 9 months to 6 years, spontaneously engaging in everyday math at home as they eat, construct, sing, read, and more in their normal environments. Other videos show individual children revealing their math thinking and strategies as they talk with an adult. A final video shows a child doing her first kindergarten math homework assignment. Fascinating and often funny, the videos help adults to understand children's thinking and to foster the joyful development of everyday math, which can provide a foundation for formal math education in kindergarten and beyond. The book also offers many specific math activities designed to promote learning. Everyday math can be a delight for both adults and children. Enjoy it with them! Book Features: An account of young children's everyday math, much of which is widespread across gender, socioeconomic status, and culture. An exploration of how understanding children's everyday math can lay the foundation for teaching school math. The first extensive use of engaging videos to tell "thinking stories" about individual young children engaged in everyday math. Videos and stories that help adults—including early childhood education students, professional educators, and parents—to understand that math learning can be enjoyable in the early years and beyond. Numerous activities that teachers, day care providers, and parents can use to promote the development of children's everyday math. Available in print with embedded QR codes for video access, as well as hot links in the digital version.

teaching math to preschoolers: Handbook of Research on the Education of Young Children

Bernard Spodek, Olivia N. Saracho, 2014-01-27 The Handbook of Research on the Education of Young Children is the essential reference on research on early childhood education throughout the world. This singular resource provides a comprehensive overview of important contemporary issues as well as the information necessary to make informed judgments about these issues. The field has changed significantly since the publication of the second edition, and this third edition of the handbook takes care to address the entirety of vital new developments. A valuable tool for all those who work and study in the field of early child.

teaching math to preschoolers: *Special Issues in Early Childhood Mathematics Education*

Research , 2022-02-14 In this book, 23 contributors offer new insights on key issues in mathematics education in early childhood. The chapters cover all mathematics curriculum-related issues in early childhood (number, geometry, patterns and structures and mathematics in daily life). Special attention is given to teachers knowledge and innovative research issues such as quantifiers among young children. Contributors are: Abraham Arcavi, Ruthi Barkai, Douglas H. Clements, Bat-Sheva Eylon, Dina Hassidov, Rina Hershkowitz, Leah Ilani, Bat-Sheva Ilany, Candace Joswick, Esther Levenson, Zvia Markovits, Zemira Mevarech, Joanne Mulligan, Sherman Rosenfeld, Flavia Santamaria, Julie Sarama, Juhaina Awawdeh Shahbari, Amal Sharif-Rasslan, Tal Sharir, Nora Scheuer, Pessia Tsamir, Dina Tirosh and Ana Clara Ventura.

teaching math to preschoolers: Engaging Young Children in Mathematics Douglas H. Clements, Julie Sarama, 2004 *Engaging Young Children in Mathematics: Standards for Early Childhood Mathematics Education* brings together the combined wisdom of a diverse group of experts involved with early childhood mathematics. The book originates from the landmark 2000 Conference on Standards for Pre-kindergarten and Kindergarten Mathematics Education, attended by representatives from almost every state developing standards for young children's mathematics; federal government officials; mathematicians; mathematics educators; researchers from mathematics education, early childhood education, and psychology; curriculum developers; teachers; policymakers; and professionals from organizations such as the National Conference of Teachers of Mathematics and the National Association for the Education of Young Children. The main goal of the Conference was to work collectively to help those responsible for framing and implementing early childhood mathematics standards. Although it has its roots in the Conference, the expanded scope of the standards and recommendations covered in this book includes the full range of kindergarten to grade 2. The volume is organized into two main parts and an online appendix (<http://www.gse.buffalo.edu/org/conference/>). Part One, Major Themes and Recommendations, offers a framework for thinking about pre-kindergarten - grade 2 mathematics education and specific recommendations. Part Two, Elaboration of Major Themes and Recommendations, provides substantive detail regarding young students' understandings of mathematical ideas. Each Part includes five parallel subsections: Standards in Early Childhood Education; Math Standards and Guidelines; Curriculum, Learning, Teaching, and Assessment; Professional Development; and Toward the Future: Implementation and Policy. As a whole the book:

- * presents comprehensive summaries of research that provide specific guidelines for standards, curriculum, and teaching;
- * takes the recent reports and recommendations for early childhood mathematics education to the next level;
- * integrates practical details and research throughout; and
- * provides a succinct, but thorough review of research on the topics, sequences, and learning trajectories that children can and should learn at each of their first years of life, with specific developmental guidelines that suggest appropriate content for each topic for each year from 2-year-olds to 7-year-olds.

This is an indispensable volume for mathematics educators, researchers, curriculum developers, teachers and policymakers, including those who create standards, scope and sequences, and curricula for young children and professional teacher development materials, and students in mathematics education, early childhood trainers, teacher educators, and faculty in mathematics education.

teaching math to preschoolers: Learning and Teaching Early Math Douglas H. Clements, Julie Sarama, 2009-04-01 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.

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