

# math lessons for 1st grade

**math lessons for 1st grade** are foundational for building essential numeracy skills and fostering a positive attitude toward mathematics. At this stage, students begin to explore basic arithmetic, number sense, and problem-solving techniques that set the groundwork for future math success. Effective math lessons for 1st grade integrate engaging activities with clear explanations to help young learners grasp concepts such as addition, subtraction, and understanding numbers up to 100. This article explores the key components of 1st-grade math instruction, including curriculum objectives, teaching strategies, and practical lesson ideas. Additionally, it covers the use of manipulatives and technology, assessment methods, and tips for supporting students' math development at home and in the classroom. The following sections provide a comprehensive guide to structuring and delivering effective math lessons for first graders.

- Understanding the 1st Grade Math Curriculum
- Essential Math Skills for 1st Graders
- Effective Teaching Strategies for 1st Grade Math
- Using Manipulatives and Technology in Math Lessons
- Assessing Progress in 1st Grade Math
- Supporting Math Learning at Home and School

## Understanding the 1st Grade Math Curriculum

The 1st grade math curriculum is designed to introduce students to fundamental mathematical concepts and skills that are critical for their academic growth. It emphasizes number sense, basic operations, measurement, and simple geometry. Understanding the curriculum standards helps educators develop lesson plans that align with learning goals and ensure comprehensive coverage of necessary topics. Most 1st grade programs focus on numbers up to 100, addition and subtraction within 20, understanding place value, and recognizing patterns and shapes.

## Key Learning Objectives

Key learning objectives in math lessons for 1st grade include developing the ability to count, compare, and order numbers; solving addition and subtraction problems; understanding the concepts of more and less; and

beginning to explore measurement and data. These objectives provide a roadmap for educators to create structured lessons that progressively build student confidence and competence in math.

## **Curriculum Standards and Guidelines**

Curriculum standards such as the Common Core State Standards (CCSS) or state-specific guidelines outline the expectations for math proficiency by the end of 1st grade. Familiarity with these standards ensures that math lessons for 1st grade meet educational requirements and prepare students for subsequent grades. These guidelines emphasize conceptual understanding, procedural skills, and problem-solving abilities.

## **Essential Math Skills for 1st Graders**

Developing essential math skills is the primary focus of math lessons for 1st grade. These skills form the basis for all future mathematical learning and include number recognition, addition, subtraction, place value understanding, and basic geometry. Mastery of these skills supports students in becoming confident and independent math learners.

## **Number Sense and Counting**

Number sense involves recognizing numbers, understanding their values, and being able to count accurately. Math lessons for 1st grade emphasize counting forward and backward, skip counting by twos, fives, and tens, and comparing numbers to determine which is greater or smaller. This foundational skill helps students quantify objects and understand numeric relationships.

## **Addition and Subtraction**

Addition and subtraction are core operations introduced in 1st grade math lessons. Students learn to add and subtract within 20 using various strategies such as counting on, making ten, and using number lines. These lessons include solving word problems and understanding the inverse relationship between addition and subtraction, which reinforces comprehension and application.

## **Understanding Place Value**

Place value concepts teach students to recognize the value of digits based on their position within a number. Lessons focus on numbers up to 100, breaking down numbers into tens and ones. This understanding is crucial for performing arithmetic operations and sets the stage for more advanced math topics.

# **Introduction to Measurement and Geometry**

First graders begin exploring measurement concepts such as length, weight, and time through hands-on activities. Basic geometric shapes and their attributes, including sides and corners, are also introduced. These skills enhance spatial reasoning and the ability to compare and classify objects.

## **Effective Teaching Strategies for 1st Grade Math**

Implementing effective teaching strategies is essential for delivering impactful math lessons for 1st grade. Strategies that engage students in active learning, use visual aids, and connect math to real-life situations promote deeper understanding and retention of concepts.

### **Hands-On Learning and Manipulatives**

Using manipulatives such as counters, blocks, and number lines allows students to physically interact with math concepts. This tactile approach helps make abstract ideas concrete and supports diverse learning styles. Math lessons for 1st grade often incorporate these tools to visualize addition, subtraction, and place value.

### **Incorporating Visual and Verbal Models**

Visual models like charts, diagrams, and drawings help clarify mathematical ideas. Verbal explanations and storytelling can contextualize math problems, making them more relatable. Combining these methods enhances comprehension and encourages students to articulate their thinking.

### **Encouraging Mathematical Discussions**

Facilitating classroom discussions where students explain their reasoning and strategies fosters critical thinking and communication skills. Math lessons for 1st grade benefit from opportunities for peer collaboration and teacher-guided questioning to deepen understanding.

### **Utilizing Repetition and Practice**

Consistent practice through worksheets, games, and interactive activities helps reinforce math skills. Repetition solidifies learning and builds fluency in basic operations and number sense, essential components of math lessons for 1st grade.

# Using Manipulatives and Technology in Math Lessons

Integrating manipulatives and technology enhances the effectiveness of math lessons for 1st grade by providing diverse learning experiences. These resources support engagement, understanding, and skill development.

## Types of Manipulatives

Common manipulatives include counting bears, base-ten blocks, pattern blocks, and fraction circles. These tools help students visualize mathematical concepts and solve problems concretely. Manipulatives are especially useful for illustrating addition, subtraction, place value, and geometric shapes.

## Educational Technology Tools

Digital tools such as interactive math apps, virtual manipulatives, and educational games provide dynamic ways for students to practice and apply math skills. Technology can offer immediate feedback, adapt to individual learning levels, and motivate learners through engaging interfaces.

## Best Practices for Implementation

Effective use of manipulatives and technology requires purposeful integration into lesson plans. Teachers should select resources that align with learning objectives and provide clear instructions. Combining hands-on and digital tools creates a balanced math learning environment.

## Assessing Progress in 1st Grade Math

Assessment is a critical component of math lessons for 1st grade, providing insight into student understanding and guiding instructional decisions. Various assessment methods help track progress and identify areas needing reinforcement.

## Formative Assessments

Formative assessments include observations, quizzes, and classwork that offer ongoing feedback during lessons. These assessments help teachers adjust instruction to meet student needs and support mastery of math concepts.

## **Summative Assessments**

Summative assessments, such as end-of-unit tests and standardized exams, evaluate cumulative knowledge and skills. They inform educators about overall student achievement and readiness for subsequent math challenges.

## **Using Assessment Data Effectively**

Analyzing assessment results allows educators to identify strengths and weaknesses in math learning. This data supports targeted interventions, personalized instruction, and communication with parents about student progress.

## **Supporting Math Learning at Home and School**

Collaboration between home and school environments enhances the effectiveness of math lessons for 1st grade. Parents and teachers play vital roles in fostering a supportive atmosphere for math learning.

## **Strategies for Parents**

Parents can support math development by engaging children in everyday math activities, such as counting objects, measuring ingredients, or playing math games. Encouraging a positive attitude toward math and providing consistent practice opportunities are key.

## **Teacher-Parent Communication**

Regular communication between teachers and parents ensures alignment in instructional approaches and reinforces learning goals. Sharing resources, progress updates, and strategies for supporting math skills helps create a cohesive learning experience.

## **Creating a Math-Friendly Environment**

Both home and classroom environments that value math learning contribute to student success. Providing access to math materials, fostering curiosity, and celebrating achievements encourage ongoing engagement with math concepts.

- Consistent practice with numbers and operations
- Incorporation of hands-on learning tools

- Use of visual aids and interactive technology
- Regular assessment and feedback
- Active collaboration between educators and families

## **Frequently Asked Questions**

### **What are the key math concepts taught in 1st grade?**

In 1st grade, students typically learn basic addition and subtraction, number sense up to 100, place value, simple word problems, measurement, and basic geometry like shapes and patterns.

### **How can parents help their 1st graders improve math skills at home?**

Parents can help by practicing counting, using everyday objects for addition and subtraction, playing math-related games, reading math storybooks, and encouraging problem-solving through real-life scenarios.

### **What are some effective activities for teaching addition and subtraction to 1st graders?**

Effective activities include using manipulatives like counters or blocks, number lines, interactive math apps, story problems, and hands-on games that involve combining or separating groups of objects.

### **How important is incorporating math lessons into daily routines for 1st graders?**

Incorporating math into daily routines is very important as it helps children see the practical use of math, reinforces concepts through repetition, and makes learning more engaging and meaningful.

### **What resources are recommended for 1st grade math lessons?**

Recommended resources include educational websites like Khan Academy Kids, printable worksheets, math storybooks, interactive apps, and teacher-created lesson plans that focus on foundational math skills.

# Additional Resources

## 1. *Math Adventures for First Graders*

This engaging book introduces young learners to basic math concepts such as counting, addition, and subtraction through fun stories and colorful illustrations. Each chapter includes simple exercises that reinforce the lessons, making math feel like an exciting adventure. Perfect for classroom use or at-home practice.

## 2. *Counting Fun: Numbers 1 to 100*

Designed specifically for first graders, this book helps children master counting from 1 to 100 with interactive activities and games. It uses visual aids and relatable examples to build a strong number sense foundation. The repetitive and playful approach ensures children stay motivated while learning.

## 3. *Shapes and Patterns in Our World*

This book explores the basics of geometry by introducing shapes and patterns found in everyday life. With colorful illustrations and hands-on activities, kids learn to identify, compare, and create shapes and patterns. It encourages observation skills and creativity alongside math learning.

## 4. *Addition and Subtraction Made Easy*

A step-by-step guide that breaks down addition and subtraction for first graders, using simple language and plenty of practice problems. The book includes visual aids like number lines and counters to help children understand the concepts concretely. It also provides tips for parents and teachers to support learning.

## 5. *Fun with Measuring and Comparing*

This book introduces measurement concepts such as length, weight, and volume through engaging activities suitable for young learners. Children learn to compare objects and use basic measuring tools with real-world examples. The hands-on approach helps develop critical thinking and practical math skills.

## 6. *Time Telling for Kids*

Focused on teaching first graders how to tell time, this book uses clocks with movable hands and relatable daily routines to explain hours and minutes. It offers fun exercises to practice reading both analog and digital clocks. The friendly format ensures children grasp the concept of time confidently.

## 7. *Money Matters: Introduction to Coins and Bills*

This book introduces first graders to the basics of money, including identifying coins and bills and understanding their values. Through stories and activities, children practice simple transactions and develop early financial literacy. It builds a foundation for more complex money concepts in later grades.

## 8. *Problem Solving with Numbers*

A collection of word problems designed to enhance critical thinking and math skills in first graders. The book encourages children to apply addition,

subtraction, and counting skills to solve everyday problems. It promotes logical reasoning and helps build confidence in math.

#### 9. *Patterns and Sequences for Beginners*

This book introduces young learners to the concept of patterns and sequences through colorful visuals and interactive exercises. Children learn to recognize, extend, and create patterns using shapes, colors, and numbers. It supports the development of early algebraic thinking in a fun and accessible way.

## **Math Lessons For 1st Grade**

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Guided Math Lessons in First Grade provides detailed lessons to help you bring guided math groups to life. Based on the bestselling Guided Math in Action, this practical book offers 16 lessons, taught in a round of 3—concrete, pictorial, and abstract. The lessons are based on the priority standards and cover fluency, word problems, operations and algebraic thinking, and place value. Author Dr. Nicki Newton shows you the content as well as the practices and processes that should be worked on in the lessons, so that students not only learn the content but also how to solve problems, reason, communicate their thinking, model, use tools, use precise language, and see structure and patterns. Throughout the book, you'll find tools, templates, and blackline masters so that you can instantly adapt the lesson to your specific needs and use it right away. With the easy-to-follow plans in this book, students can work more effectively in small guided math groups—and have loads of fun along the way!

**math lessons for 1st grade: Math Activity Book for 1st Grade** Shirley L Maguire, 2020-01-14  
Our 1st grade workbook contains step-by-step examples, picture clues, and clear examples show kids how reading and math fit together. The lessons primarily focus on basic math like addition and subtraction. Read the clues and solve the problems. We guarantee that your kid will learn and will have fun at the same time. Features: 8.5 x 11 inches format 70 activity pages including addition, subtraction, dot to dot, drawing exercises, counting and more Great for public school supplementation, or homeschooling Premium glossy cover Makes a great gift! Kws: brain quest grade 1, learning books for 1st graders, get ready for school first grade, 1st grade activities, 1st grade brainquest, first grade workbooks, 1st grade math book, 1st grade learning, first grade homeschool, 1st grade math books, 1st grade activity books, work book for 1st grade, first grade workbooks for 1st graders, first grade learning, math workbook 1st grade, 1 st grade workbook, first grade activity book, first grade work book, 1st grade learning materials, 1sr grade workbook, 1 grade workbook, big workbook 1st grade, 1st grade work books, grade 1 workbook, 1st grade writing books, big 1st grade workbook, first grade writing workbook, math activity book grade 1, brain quest grade 1 math, 1st grade big workbook, workbook 1st grade, kids workbooks 1st grade, 1st grade workbook, math workbook grade 1

**math lessons for 1st grade: First Grade Math with Confidence Instructor Guide** Kate Snow, 2021-06-01  
Easy-to-use, comprehensive coverage of all essential first grade math topics. This



scripted, open-and-go program from math educator Kate Snow will give you the tools you need to teach math with confidence—even if you’ve never taught math before. Short, engaging, and hands-on lessons will help your child develop a strong understanding of math, step by step. Counting, comparing, and writing numbers to 100 Addition and subtraction facts to 20 Addition and subtraction word problems Beginning place-value and mental math Shapes, money, time, and measurement

**math lessons for 1st grade:** *Spectrum Math Workbook, Grade 1* Spectrum, 2014-08-15 1st Grade Math Workbook for kids ages 6-7 Support your child’s educational journey with the Spectrum grade 1 math workbook that teaches basic math skills to first graders. Spectrum’s first grade math workbook is a great way for your first grader to learn essential math skills such as learning fact families, place value, addition and subtraction through 100, and more through a variety of problem-solving activities that are both fun AND educational! Why You’ll Love This 1st Grade Math Book Engaging and educational math for 1st graders. “Composing 2-D and 3-D shapes”, “adding and subtracting multiples of 10”, and “measuring objects” are a few of the fun activities that incorporate math in everyday settings to help inspire learning. Testing progress along the way. Pretests, posttests, a mid-test, final test, and an answer key are included in the first grade workbook to help track your child’s progress along the way before moving on to new and exciting math lessons. Practically sized for every activity The 160-page math workbook is sized at about 8.5 inches x 10.5 inches—giving your child plenty of space to complete each exercise. About Spectrum For more than 20 years, Spectrum has provided solutions for parents who want to help their children get ahead, and for teachers who want their students to meet and exceed set learning goals—providing workbooks that are a great resource for both homeschooling and classroom curriculum. The First Grade Math Workbook Contains: 6 chapters full of vibrant activities and illustrations Pretests, posttests, mid-test, final test, scoring record, and answer key Perfectly sized at about 8.5 x 10.5

**math lessons for 1st grade: Learning 1st Grade Math Workbook** Autumn McKay, 2020-05-17 Did you know that early math exposure also helps develop reading and critical thinking skills? We all want our children to learn math skills-but what happens when a hectic life gets in the way? You no longer have to waste time searching for age-appropriate math activity pages. Now you can enjoy a collection of kid-tested activity pages at your fingertips. Autumn McKay, author of The Ultimate Kindergarten Prep Guide, is a mother of 3 and understands the pressure to encourage learning at home, but it's hard to find time. As a former schoolteacher, she has created Learning 1st Grade Math Workbook to be an easy to use workbook so you have a no-prep math activity ready for your child to learn at any moment.

**math lessons for 1st grade: Common Core State Standards 1st Grade Lesson Plans** Kim Clements, Teacher's Life Staff, Teacher's Life, 2012-08-21 This book contains two lesson plans for each sub standard of the new Common Core State Standards.

**math lessons for 1st grade: Lessons for First Grade** Stephanie Sheffield, 2001 Through manipulative materials and real-world problems, children learn to estimate, understand numerical relationships, develop number sense, compute mentally and with paper and pencil, and use arithmetic as a tool to solve problems.--pub. desc.

**math lessons for 1st grade: Teaching First Grade** Min Hong, 2001-07 A mentor teacher shares insights, strategies and lessons for teaching reading, writing and math--and laying the foundation for learning success.

**math lessons for 1st grade: 50+ Super-Fun Math Activities** Cecilia Dinio-Durkin, 2010-05 Students build critical thinking and put problem-solving strategies to work with these fun, ready-to-go, learning-packed activities! Motivating puzzles, riddles, games, stories, and interactive reproducibles reinforce important grade-specific math skills and concepts and build computational fluency. Includes ideas for group and class discussions, suggestions for connecting writing and math, easy assessment ideas, and student self-assessment forms, teacher checklists, and scoring rubrics. For use with Grade 1.

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Beth McCord Kobett, Ruth Harbin Miles, Lois A. Williams, 2018-02-09 This book brings together the best of Visible Learning and the teaching of mathematics. The chapters on learning intentions, success criteria, misconceptions, formative evaluation, and knowing thy impact are stunning. Rich in exemplars, grounded in research about practice, and with the right balance about the surface and deep learning in math, it's a great go-to book for all who teach mathematics. —John Hattie, Laureate Professor, Deputy Dean of MGSE, Director of the Melbourne Education Research Institute, Melbourne Graduate School of Education Your blueprint to planning K-2 math lessons for maximum impact and understanding Not sure of tomorrow morning's lesson plan? Or maybe you feel it isn't tailored enough for your students' needs. What do you do? For that and more, help is here. The Mathematics Lesson-Planning Handbook, Grades K-2: Your Blueprint for Building Cohesive Lessons guides teachers step-by-step through the decision-making process of planning K-2 math lessons that are purposeful, rigorous, and coherent. Instructional experts Beth McCord Kobett, Ruth Harbin Miles, and Lois A. Williams streamline and deepen the lesson-planning process showing teachers how to access students' complex needs, clarify learning intentions, and select tasks that will best lead to student understanding of mathematical concepts and skills. Along the way, teachers create an individualized blueprint for planning K-2 math lessons for maximum student learning. The lesson-planning process guides teachers to: Identify the mathematical content, language, and social learning intentions for a lesson or unit, and connect goals to success criteria Determine the purpose of a math lesson you're planning by distinguishing between conceptual understanding, procedural fluency, and transfer Select worthwhile tasks and materials that make the best use of representations, manipulatives, and other instructional tools and resources Choose the format of your lesson using reasoning and number routines, games, whole-class discussion, and pairs, or small-group work Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Decide how you'll launch your lesson, facilitate questioning, encourage productive struggle, and close your lesson Included is a lesson-planning template and examples from kindergarten, first-, and second-grade classrooms. Chapter by chapter, the decision-making strategies empower teachers to plan math lessons strategically, to teach with intention and confidence, and to build an exceptional foundation in math for all students.

**math lessons for 1st grade: 1st Grade Math Explorers** Gabby E Lopez, 2024-02-12

Empower yourself as a parent with this resource by understanding what Number Bonds are and why they are important for your child to understand. Keep your child engaged with fun hands-on activities, extra practice pages, and interactive color-by-number coloring worksheets, all meticulously crafted to reinforce essential Number Bond skills that are easy to understand. This standards and research-based activity book combines fun with foundational learning, offering a dynamic approach to mastering Number Bonds. Fuel your child's curiosity and foster a strong foundation in math with 1st Grade Math Explorers: Empowering Parents, Keeping Kids Busy Learning All About Number Bonds - where every page is an opportunity for discovery and learning!

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**math lessons for 1st grade: 1st Grade Math** Kumar, 2017-01-30 Why this book: First grade is an extremely important year in the mathematical development of your child. This book tries to provide everything a first grader needs for laying a solid math foundation. It will help the first grade student to acquire the basic math skill. It will help build a solid math foundation for first grader to succeed. It will help with critical lessons for a first grade math curriculum. It will help first grader to maintain and enhance these skills. It will help first grader to prepare for future; many jobs require basic math skills. It will help first graders in future if they get in the business world. It will help first grader with major math concepts and skills. This book gets to the root of first grade math so the first grader child can get confidence. This book will help the first grader in adjusting to the routine of school. With this first grade math book your child will get real edge. With this book first grader will make real progress with every math lesson. These Math Lessons can help children learn critical first grade math skills. Foundation for future education. Enhance your child's skills & develop mathematical fluency in your school. It has been well written to make it a very quick read. Good Luck, Kumar

**math lessons for 1st grade: Everyday Mathematics**, 2001 Provides suggested activities for introducing math concepts to children at home, covering counting, measures, time, estimation, patterns, collecting data, time, geometry, and more; and includes lists of children's books containing mathematical ideas and a book of worksheets with tips for parents.

**math lessons for 1st grade: Early Elementary Mathematics Lessons to Explore, Understand, and Respond to Social Injustice** Courtney Koestler, Jennifer Ward, Maria del Rosario Zavala, Tonya Gau Bartell, 2022-07-20 This book is a must-read for all elementary educators. A call to action, the guide for teachers offers incredible resources, including powerful lesson plans, to engage readers in the practice of teaching mathematics for social justice in early childhood settings. An immense contribution to the conversation around social justice and mathematics in elementary education. Ruchi Agarwal-Rangnath Assistant Professor, University of San Francisco San Francisco, CA Empower children to be the change—join the teaching mathematics for social justice movement! We live in an era in which students of all ages have—through media and their lived experiences—a more visceral experience of social injustices. However, when people think of social justice, mathematics rarely comes to mind. With a teacher-friendly design, this book brings early elementary mathematics content to life by connecting it to the natural curiosity and empathy young children bring with them and the issues they experience. Tested in PK-2 classrooms, the model lessons contributed in this book walk teachers through the process of applying critical frameworks to instruction, using standards-based mathematics to explore, understand, and respond to social justice issues. Learn to plan instruction that engages children in mathematics explorations through age-appropriate, culturally relevant topics such as fairness, valuing diversity and difference, representation and inequality, and environmental justice. Features include: Content cross-referenced by mathematical concept and social issues. Connection to Learning for Justice's social justice standards. Downloadable instructional materials and lesson resources. Guidance for lessons driven by children's unique passions and challenges. Connections between research and practice. Written for teachers committed to

developing equitable and just practices through the lens of mathematics content and practice standards as well as social justice standards, this book will help connect content to children's daily lives, fortify their mathematical understanding, and expose them to issues that will support them in becoming active citizens and leaders.

**math lessons for 1st grade: The Best of Corwin: Differentiated Instruction in Literacy, Math, and Science** Leslie Laud, 2011-09-28 Content-specific DI guidance from the best minds in education The Best of Corwin series showcases key chapters from critically acclaimed Corwin publications for a powerful compilation of perspectives on important education issues and topics. In this collection, current research on the most effective differentiation practices for teaching students at all levels of proficiency in literacy, mathematics, and science is brought alive through the many strategies and classroom examples from prominent authors Topics covered include: Reading and writing: A comprehensive array of models for differentiating reading instruction, an approach to gradual release of responsibility to accelerate progress, and multi-tiered writing instruction Mathematics: Support for both low- and high-achieving students, including interventions and challenges, and the implementation of RTI in math instruction Science: Models and methods for increasing student achievement through differentiated science inquiry From the differentiation of content to the differentiation of instructional methods to the pacing of material to meet different students' needs, everything you need to begin and master differentiated instruction is right here!

**math lessons for 1st grade: Lesson Study Research and Practice in Mathematics Education** Lynn C. Hart, Alice S. Alston, Aki Murata, 2011-01-11 Lesson study is a professional development process that teachers engage in to systematically examine their practice, with the goal of becoming more effective. Originating in Japan, lesson study has gained significant momentum in the mathematics education community in recent years. As a process for professional development, lesson study became highly visible when it was proposed as a means of supporting the common practice of promoting better teaching by disseminating documents like standards, benchmarks and nationally validated curricula. While the body of knowledge about lesson study is growing, it remains somewhat elusive and composed of discrete research endeavors. As a new research area there is no coherent knowledge base yet. This book will contribute to the field bringing the work of researchers and practitioners together to create a resource for extant work. This book describes several aspects of Lesson Study, amongst others: it gives an historical overview of the concept, it addresses issues related to learning and teaching mathematics, it looks at the role of the teacher in the process. The last two sections of the book look at how lesson Study can be used with preservice mathematics teachers and at university mathematics methods teaching.

**math lessons for 1st grade: Early Childhood Education** Donna Farland-Smith, 2019-04-24 This book will serve as a resource for students, researchers, and practitioners in the area of early childhood education. The 18 chapters are divided and organized into the major areas relevant to early childhood education: early childhood development, play, science, mathematics, technology, literacy, and exceptional learners. Each chapter contains an overview of background information pertinent to the chapter and a synopsis of research or a new research study. The information contained in this book provides a foundation for past and/or present research and suggests future research studies.

**math lessons for 1st grade: Teaching Number Sense, Grade 1** Chris Confer, 2005 The teaching number sense series focuses on the critical role that number sense plays in students' developing mathematical understanding. Number sense encompasses a wide range of abilities, including being able to make reasonable estimates and to think and reason flexibly.

**math lessons for 1st grade: Keepers of the American Dream** Christine Sleeter, 2012-06-14 This book reports an ethnographic study of thirty teachers from eighteen schools who participated in a staff development programme in multicultural education. The study examines how multicultural education was actually presented to teachers, and areas in which their classroom teaching and perception of students changed over the two-year period. Although most of the teachers reported learning a good deal, changes in their teaching and their discussions of teaching were fairly limited.

After reporting the data, the book examines why changes were limited, analyzing three areas: the nature of staff development and how multicultural education was packaged; the structure of schools as institutions; and the identities and life experiences of teachers as White women, often from working class backgrounds.

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