

**List of MUST READ PreK-2nd grade math books was compiled by Christina Tondevoid for K-5 Math Academy**

**Must Read (\*\*denotes the BEST books that you need to get immediately)**

- \*\*Teaching Student Centered Mathematics: Developmentally Appropriate Instruction for Grades PreK-2 by John Van de Walle, et al
- \*\*Children's Mathematics: Cognitively Guided Instruction by Thomas Carpenter, et al
- Fluency through Flexibility: How to Build Number Sense - Numbers 0-20 by Christina Tondevoid
- How Children Learn Number Concepts: A Guide to the Critical Learning Phases by Kathy Richardson
- It Makes Sense! Using Ten Frames to Build Number Sense by Melissa Conklin
- Learning and Teaching Early Math: The Learning Trajectories Approach (Studies in Mathematical Thinking and Learning Series) by Clements & Sarama
- Number Sense Routines: Building Numerical Literacy Every Day in Grades K-3 by Shumway
- Number Talks: Helping Children Build Mental Math and Computation Strategies by Sherry Parrish
- Teaching Number in the Classroom with 4-8 Year-olds by Wright, et al
- Teaching Mathematics in Early Childhood by Sally Moomaw

**Good to Have**

- Coming to Know Number: A Mathematics Activity Resource for Elementary School Teachers by Wheatley & Reynolds
- Contexts for Learning Mathematics: Number Sense, Addition, Subtraction by Catherine Twomey Fosnot
- Focus in PreKindergarten-Grade 2: Teaching with Curriculum Focal Points by National Council of Teachers of Mathematics (NCTM)
- Focus in Kindergarten: Teaching with Curriculum Focal Points by NCTM
- Focus in Grade 1: Teaching with Curriculum Focal Points by NCTM
- Focus in Grade 2: Teaching with Curriculum Focal Points by NCTM
- Intentional Talk: How to Structure and Lead Productive Mathematical Discussions
- Making Sense: Teaching and Learning Mathematics with Understanding by Hiebert, et al
- Principles to Actions: Ensuring Mathematical Success for All
- The Daily Five: Fostering Literacy in the Elementary Grades by Boushey & Moser (even though this is focused on Literacy, the book can be helpful in setting up independent stations that can be useful in math as well)
- The Young Child and Mathematics by Juanita Copley
- Thinking Mathematically: Integrating Arithmetic & Algebra in Elementary School by Thomas Carpenter, et al
- Young Children Reinvent Arithmetic: Implications of Piaget's Theory by Constance Kamii
- Young Children Continue to Reinvent Arithmetic: 2nd Grade - Implications of Piaget's Theory by Constance Kamii

**Extra References** (These are not any less impactful, but many of these are long and somewhat more “researchy.” The Must Read and Good to Have books are more friendly and easy to implement quickly in your classroom)

- Achieving Fluency: Special Education and Mathematics edited by Skip Fennell
- Children Learn Mathematics: A Learning-Teaching Trajectory with Intermediate Attainment Targets for Calculation with Whole Numbers in Primary School by Marja van den Heuvel-Panhuizen
- Engaging Young Children in Mathematics: Standards for Early Childhood Mathematics Education by Clements & Sarama
- Early Childhood Mathematics Education Research: Learning Trajectories for Young Children (Studies in Mathematical Thinking and Learning Series) Sarama & Clements
- How To Differentiate Your Math Instruction: Lessons, Ideas, and Videos with Common Core Support by Dacey, et al
- Preparing Early Childhood Educators to Teach Math: Professional Development That Works by Ginsberg, et al
- Putting Essential Understanding of Addition and Subtraction into Practice, Pre-K-2 by NCTM
- The Child’s Understanding of Number by Gelman & Gallistel
- The Development of Arithmetic Concepts and Skills by Baroody & Dowker
- Young Mathematicians at Work: Constructing Number Sense, Addition, and Subtraction by Fosnot & Dolk
- What’s Math Got To Do With It? Helping Children Learn to Love Their Least Favorite Subject - And Why It’s Important For America by Jo Boaler