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Mastering the Basic Math Facts in Addition and Subtraction: Strategies, Activities, and Interventions to Move Students Beyond Memorization

Susan O'Connell, John SanGiovanni

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"When math fact instruction is thoughtful and strategic, it results in more than a student's ability to quickly recall a fact; it cultivates reflective students who have a greater understanding of numbers and a flexibility of thinking that allows them to understand connections between mathematical ideas. It develops the skills and attitudes to tackle the future challenges of mathematics."
-Sue O'Connell and John SanGiovanni

In today's math classroom, we want children to do more than just memorize math facts. We want them to understand the math facts they are being asked to memorize. Our goal is automaticity and understanding; without both, our children will never build the foundational skills needed to do more complex math. Both the Common Core State Standards and the NCTM Principles and Standards emphasize the importance of understanding the concepts of addition and subtraction. Sue O'Connell and John SanGiovanni provide insights into the teaching of basic math facts, including a multitude of instructional strategies, teacher tips, and classroom activities to help students master their facts while strengthening their understanding of numbers, patterns, and properties.

Designed to be easily integrated into your existing math program, Mastering the Basic Math Facts:

- emphasizes the big ideas that provide a focus for math facts instruction
- broadens your repertoire of instructional strategies
- provides dozens of easy-to-implement activities to support varied levels of learners
- stimulates your reflection related to teaching math facts.

Through investigations, discussions, visual models, children's literature, and hands-on explorations, students develop an understanding of the concepts of addition and subtraction, and through engaging, interactive practice achieve fluency with basic facts.
Whether you're introducing your students to basic math facts, reviewing facts, or providing intervention for struggling students, this book will provide you with insights and activities to simplify this complex, but critical, component of math teaching.

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