

## Childrens Mathematics/Cognitively Guided Instruction

Cognitively Guided Instruction

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Foreword by Mary M. Lindquist

### This title is recommended for:

Teaching Mathematics--Elementary

#### Product Information



Preview sample chapters for this book

# Note: The new Second Edition of Children's Mathematics will be available October 23, 2014!

By the time they begin school, most children have already developed a sophisticated, informal understanding of basic nathematical concepts and problem-solving strategies. Too often, however, the mathematics instruction that we impose upon hem in the classroom fails to connect with this informal knowledge. *Children's Mathematics* was written to help you understand children's intuitive mathematical thinking and use that knowledge to help children learn mathematics with understanding.

Based on more than twenty years of research, this book portrays the development of children's understanding of basic number concepts. The authors offer a detailed explanation and numerous examples of the problem-solving and computational processes hat virtually all children use as their numerical thinking develops. They also describe how classrooms can be organized to foster hat development. **Two accompanying CDs** provide a remarkable inside look at students and teachers in real classrooms mplementing the teaching and learning strategies described in the text. Together, the book and CDs provide you with the oundation necessary to engage children in discussions of how they think through problems—providing suggestions for what problems to give and insight into what responses to expect, and how children's thinking will evolve.

## **Fable of Contents**

## Contents:

- 1. Children's Mathematical Thinking
- Addition/Subtraction: Problem Types
- 3. Addition/Subtraction: Children's Solution Strategies
- 4. Multiplication/Division: Problem Types and Children's Solution Strategies
- 5. Problem Solving as Modeling
- 6. Multidigit Number Concepts
- 7. Beginning to Teach Using Cognitively Guided Instruction
- 8. CGI Classrooms

Appendix: The Research Base for Cognitively Guided Instruction