



## Teaching and Learning Middle Grades Mathematics, with Student Resource CD

By Rubenstein, Rheta N.; Beckmann, Charlene E.; Thompson, Denisse R.

Wiley, 2008. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Annotated Contents.Foreword.Preface and Acknowledgments.Welcome.Course Introduction.Introductory Lesson.Mathematics Education: Where Do I Stand?Getting to Know Colleagues: Uniquely Us.Unit One: A Learning Community.Mathematics Strand: Reasoning with Patterns and Algebra.Introduction.Unit One Investigation: Figurate Numbers.Preparing to Interview Students about Reasoning with Patterns.1.1. Problem Solving: Careful Counting.1.2. Reasoning and Proof: Patterns and Multiplication.1.3. Generalizing from Patterns: The Concept of Variable.1.4. Using Experiments: Exploring Graphs and Lines.1.5. Learning with Materials: Integers and Equations.1.6. Using Contexts: Functions.1.7. Using Interviews to Understand Students' Reasoning with Patterns.Synthesizing Unit One.Unit Two: The Learning of Mathematics.Mathematics Strand: Rational Numbers and their Uses.Introduction.Unit Two Investigation: Four Fours.Preparing to Interview Students about Proportional Reasoning.2.1. Using Multiple Representations: Rational Numbers.2.2. Using Learning Theory: Fractions, Decimals, and Percents.2.3. Developing Meanings of Operations: Addition and Subtraction.2.4. Developing Meanings of Operations: Multiplication and Division.2.5. Analyzing Student Thinking: Proportional Reasoning.2.6. Using Interviews to Understand Students' Proportional Reasoning.Synthesizing Unit Two.Unit Three: Planning and Instruction.Mathematics Strand: Geometry, Measurement, and Transformations.Introduction.Unit Three Investigation: Historical Formulas.Preparing to Interview Students about Perimeter and Area.3.1. Identifying Worthwhile Mathematical Tasks: Measurement Formulas.3.2. Lesson Planning: Proportions among Measures in Similar Figures.3.3. Guided Discovery: Quadrilaterals.3.4. Open-Ended Exploration: Tessellations.3.5. Integrating Direct Instruction with...



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