



Elementary Mathematics Pedagogical Content Knowledge: Powerful Ideas for Teachers

By Schwartz, James E.

Pearson, 2007. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Most chapters include "Preview," "Chapter Review," "Self-Check," "Selected References," "Online Activities" and "Activities and Exercises" Introduction Chapter 1: The changing landscape of elementary mathematics teaching and learning A distinction between conceptual knowledge and procedural knowledge Problem-focused teaching Communication in a mathematics classroom Reasoning Patterns and Change Mathematical connections Chapter 2: The Powerful ideas: Composition, Decomposition, Relationships, Representation, and Context 39 Composition Decomposition Relationships Representation Context Chapter 3: Powerful ideas related to the number system What is counting? (How Many?) What are numbers? How do we represent numbers? What is a number system? How have number systems developed differently in the past (and whats so special about todays number system?) The idea of base Basic Digits and Place Value Composition Chapter 4: Powerful ideas related to arithmetic Addition and Subtraction Multiplication Division Chapter 5: Powerful ideas related to geometry What is geometry? Why learn geometry? Why do people have difficulty with geometry? Spatial visualization and properties of shapes Translations, Rotations, Reflections (or Slides, Turns, and Flips) Similarity and Congruence Reasoning about types of shapes Deduction Chapter 6: Powerful ideas related to parts and wholes Reprise:...

Reviews

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