1. Record Nr. UNINA9910480118003321 Autore Spangler David B. **Titolo** Strategies for teaching whole number computation: using error analysis for intervention and assessment // David B. Spangler; cover designer, Anthony Paular Thousand Oaks, California:,: Corwin,, 2010 Pubbl/distr/stampa ©2010 **ISBN** 1-4522-9634-0 1-4522-9898-X Descrizione fisica 1 online resource (224 p.) Disciplina 372.7/2 Soggetti Arithmetic - Study and teaching (Elementary) - Activity programs Mathematics - Study and teaching (Elementary) - Activity programs Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references. Nota di contenuto ""Cover""; ""Contents""; ""Preface""; ""Acknowledgments""; ""About the Author""; ""Chapter 1 - A Look at the Academic Research: Intervention in the Mathematics Classroom""; ""Introduction to the Academic Research""; ""Equity and Quality in the Math Classroom""; ""Student Dispositions"; ""Activating Prior Knowledge""; ""Representations""; ""Estimation and Mental Math""; ""Alternative Algorithms""; ""Differentiating Instruction""; ""Instructional Games""; ""Response to Intervention""; ""Questions for Teacher Reflection""; ""Chapter 2 - Big Ideas in Computation and Problem Solving"" ""The Base-Ten Place-Value System and Multidigit Computation""" Actions and Operations"; ""Questions for Teacher Reflection""; ""Unit 1 - Addition of Whole Numbers""; ""Diagnostic Test""; ""Item Analysis for Diagnostic Test""; ""Error Patterns & Intervention Activities""; ""Practice Exercises""; ""Questions for Teacher Reflection""; ""Unit 2 - Subtraction of Whole Numbers""; ""Diagnostic Test""; ""Item Analysis for Diagnostic Test""; ""Error Patterns & Intervention Activities""; ""Practice Exercises""; ""Questions for Teacher Reflection""; ""Unit 3 - Multiplication of Whole

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""Diagnostic Test"""Item Analysis for Diagnostic Test""; ""Error Patterns & Intervention Activities""; ""Practice Exercises""; ""Questions for Teacher Reflection""; ""Unit 4 - Division of Whole Numbers""; ""Diagnostic Test""; ""Item Analysis for Diagnostic Test""; ""Error Patterns & Intervention Activities""; ""Practice Exercises""; ""Questions for Teacher Reflection""; ""Resources for Estimation, Instructional Games, and Follow-Up Activities (Blacklines)""; ""Resources for Addition""; ""Follow-Up Activity: Next Number, Please""; ""Roller Coaster Rounding""
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Instructional Game: Keeping Score in Bowling"": ""Resources for

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""Instructional Game: How Close Can You Get?""
""Tables for Addition/Subtraction""

Sommario/riassunto

Through error analysis and targeted instruction, you can uncover students' misconceptions in addition, subtraction, multiplication, and division and help students understand and correct their own mistakes!