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Titolo	The problem with math is English [[electronic resource] ] : a language-focused approach to helping all students develop a deeper understanding of mathematics / / Concepcion Molina
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Collana	Jossey-Bass teacher The problem with math is English
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Soggetti	Mathematics - Study and teaching English language - Study and teaching Language arts - Correlation with content subjects 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 and index.
Nota di contenuto	Machine generated contents note: About the AuthorAbout This BookIntroductionJulian's StoryRationale and PurposeWho Benefits from This Book?Chapter 1: The Problem with Math Is English (And a FewOther Things)Why Language and Symbolism?What We Are TeachingTurning the Tide: A Sampling of ApproachesMathematics Is About Relationships Connecting the Pieces and Looking Ahead Chapter 2: Why a Language Focus in Mathematics?The Convergence of Mathematics and English: More Than Just VocabularyProblems Based on the English LanguageA Number of Problems with NumberChapter 3: Language and Symbolism in Traditional InstructionShortcomings of Traditional InstructionMore Language and Symbolism Issues: Adding Fuel to the FireTell Me Again Why the Language Focus in Math?Chapter 4: So What Does Conceptual Understanding Look Like?It Starts with DefinitionsMaking Connections in Math: Beyond Connecting DotsThe Interpretation and Translation of MathConclusionChapter 5: The Order of Operations: A Convention or a Symptomof What Ails Us?The Roots of

the RulesThe Natural Order: A Mathematical PerspectiveConclusion: A  
 Conceptual Understanding of the Order of OperationsChapter 6: Using  
 Multiplication as a Critical Knowledge BaseUnderstanding Key  
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 of the Distributive PropertyFeeling Neglected: The Units in  
 MultiplicationConclusion: Small Details, Huge ImpactChapter 7:  
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 RepresentationThe Power of Interpretation: Three Perspectives of  
 TrapezoidsSummaryChapter 10: Language-Focused Conceptual  
 InstructionLanguage Focus: Beyond the DefinitionsThe Secrets to  
 Solving Word ProblemsSuggested Instructional  
 StrategiesSummaryChapter 11: Mathematics: It's All About  
 Relationships!Language and Symbolism: Vehicles for Relationship  
 RecognitionRelationships and FractionsProportional  
 ReasoningRelationships: Important ConsiderationsRelationships:  
 Making Powerful ConnectionsSummaryChapter 12: The Perfect Non-  
 Storm: Understanding the Problem and Changing the SystemA Systemic  
 IssueMath MakeoverSummaryBibliography.

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### Sommario/riassunto

"Teaching K-12 math becomes an easier task when everyone understands the language, symbolism, and representation of math conceptsPublished in partnership with SEDL, *The Problem with Math Is English* illustrates how students often understand fundamental mathematical concepts at a superficial level. Written to inspire ?aha? moments, this book enables teachers to help students identify and comprehend the nuances and true meaning of math concepts by exploring them through the lenses of language and symbolism, delving into such essential topics as multiplication, division, fractions, place value, proportional reasoning, graphs, slope, order of operations, and the distributive property. Offers a new way to approach teaching math content in a way that will improve how all students, and especially English language learners, understand math Emphasizes major attributes of conceptual understanding in mathematics, including simple yet deep definitions of key terms, connections among key topics, and insightful interpretation This important new book fills a gap in math education by illustrating how a deeper knowledge of math concepts can be developed in all students through a focus on language and symbolism"--

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