

## Global Perspectives and Practices for Reform-Based Mathematics Teaching

This book promotes academic discussion on the reform-based teaching and learning of mathematics at various educational levels and systems all over the world and raises questions for the field of mathematics education. Additionally, it describes challenges and issues for teachers and teacher educators. The book provides a resource for teachers, teacher educators, and other practitioners by eliciting effective reform-based mathematics teaching practices from around the world, as well as different practical and theoretical perspectives dealing with teaching and learning of mathematics in the context of various educational reforms. From illuminating the impact, issues, and challenges of reform-based mathematics on student learning, to analyzing limitations and opportunities of reform-based mathematics teaching for equity, diversity, and access, this is an ideal text for teacher educators, teachers, practitioners, and researchers.

Reform-based mathematics has become a popular topic in the education field as this teaching emphasizes classroom discourse and instructional goals related to student engagement and an understanding of mathematical reasoning, concepts, and procedures using instructional practices that build on students' informal knowledge of mathematics. It also connects mathematics with other disciplines and the real world and provides opportunities for students to contribute and invent their own methods during problem-solving. Further study on the best practices, benefits, and challenges of implementing this teaching into education is required. Global Perspectives and Practices for Reform-Based Mathematics Teaching explores international perspectives on diverse reform-based practices in teaching and learning mathematics, describes challenges and issues for teachers and teacher educators, promotes reflection and academic discussion at various levels and in various educational systems, and raises questions for the field of mathematics education. Covering a range of topics such as teacher preparation programs and integrated learning spaces, this reference work is ideal for academicians, practitioners, researchers, instructors, educators, and students.



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