

1. Record Nr.	UNINA9910783303503321
Titolo	Preparing mathematics and science teachers for diverse classrooms [[electronic resource]] : promising strategies for transformative pedagogy / / edited by Alberto J. Rodriguez, Richard S. Kitchen
Pubbl/distr/stampa	Mahwah, N.J., : Lawrence Erlbaum Associates, Publishers, 2005
ISBN	1-135-62078-4 1-282-32265-6 9786612322655 1-4106-1135-3
Descrizione fisica	1 online resource (286 p.)
Altri autori (Persone)	RodriguezAlberto J KitchenRichard S
Disciplina	372.35
Soggetti	Mathematics - Study and teaching (Elementary) - United States Mathematics - Study and teaching (Middle school) - United States Science - Study and teaching (Elementary) - United States Science - Study and teaching (Middle school) - United States Mathematics teachers - Training of - United States Science teachers - Training of - United States
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 indexes.
Nota di contenuto	Contents; Foreword; Preface; 1 Teachers' Resistance to Ideological and Pedagogical Change: Definitions, Theoretical Framework, and Significance; 2 Using Sociotransformative Constructivism to Respond to Teachers' Resistance to Ideological and Pedagogical Change; 3 Making Equity and Multiculturalism Explicit to Transform Mathematics Education; 4 Using Inquiry Processes to Investigate Knowledge, Skills, and Perceptions of Diverse Learners: An Approach to Working With Prospective and Current Science Teachers 5 Breaking Through the Ice: Dealing With Issues of Diversity in Mathematics and Science Education Courses6 Unpacking Teachers' ""Resistance"" to Integrating Students' Language and Culture Into Elementary Science Instruction; 7 Engaging Prospective Teachers in Critical Reflection: Facilitating a Disposition to Teach Mathematics for

Diversity; 8 "'Eh, Mus' Be Smart Class'": Race, Social Class, Language, and Access to Academic Resources; 9 Transformative Mathematics Pedagogy: From Theory to Practice, Research, and Beyond
10 Seeing IT in the Lives of Children: Strategies for Promoting Equitable Practices Among Tomorrow's Science Teachers
11 Helping Teachers Use Students' Home Cultures in Mathematics Lessons: Developmental Stages of Becoming Effective Teachers of Diverse Students; 12 Examining the "'Script'" in Science Education: Critical Literacy in the Classroom; Author Index; Subject Index

Sommario/riassunto

This book provides a theoretical basis and practical strategies to counter resistance to learning to teach for diversity (in culturally and gender-inclusive ways), and resistance to teaching for understanding (using student-centered and inquiry-based pedagogical approaches). Teacher educators from across the United States present rich narratives of their experiences in helping prospective and practicing teachers learn to teach for diversity and for understanding in a variety of mathematics and science contexts. Mathematics and science education has been slow to respond to issues of div
