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Reforming Mathematics Education in America's Cities

THE URBAN MATHEMATICS
COLLABORATIVE PROJECT



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Reforming Mathematics Education In Americas Cities The Urban Mathematics Collaborative Project

Louise Grinstein, Sally I. Lipsey



Reforming Mathematics Education In Americas Cities The Urban Mathematics Collaborative Project:

Reforming Mathematics Education in America's Cities Norman Webb, Thomas A. Romberg, 1994 *Bold Ventures* S. Raizen, E.D. Britton, 2012-12-06 This book presents comprehensive results from case studies of three innovations in mathematics education that have much to offer toward understanding current reforms in this field Each chapter tells the story of a case in rich detail with extensive documentation and in the voices of many of the participants the innovators the teachers the students Similarly Volume 2 of *Bold Ventures* presents the results from case studies of five innovations in science education Volume 1 provides a cross case analysis of all eight innovations Many U S readers certainly will be very familiar with the name of at least if not all of the mathematics innovations discussed in this volume for one example the NCTM Standards and probably with their general substance Much of the education community's familiarity with these arises from the projects own dissemination efforts The research reported in this volume however is one of the few detailed studies of these innovations undertaken by researchers outside the projects themselves *Designing Learning Environments for Developing Understanding of Geometry and Space* Richard Lehrer, Daniel Chazan, 1998 This volume reflects an appreciation of the interactive roles of subject matter teacher student and technologies in designing classrooms that promote understanding of geometry and space Although these elements of geometry education are mutually constituted the book is organized to highlight first the editors vision of a general geometry education second the development of student thinking in everyday and classroom contexts and third the role of technologies Rather than looking to high school geometry as the locus and all too often the apex of geometric reasoning the contributors to this volume suggest that reasoning about space can and should be successfully integrated with other forms of mathematics starting at the elementary level and continuing through high school Reintegrating spatial reasoning into the mathematical mainstream indeed placing it at the core of K 12 mathematics environments that promote learning with understanding will mean increased attention to problems in modeling structure and design and reinvigoration of traditional topics such as measure dimension and form Further the editors position is that the teaching of geometry and spatial visualization in school should not be compressed into a characterization of Greek geometry but should include attention to contributions to the mathematics of space that developed subsequent to those of the Greeks This volume is essential reading for those involved in mathematics education at all levels including university faculty researchers and graduate students *Bold Ventures Volume 1* Raizen, 2012-12-06 This book based on detailed studies of eight innovations in mathematics and science education has many insights to offer on current school reform Since each innovation studied has taken its own unique approach the set as a whole spans the spectrum from curriculum development to systemic reform from concentrating on particular school populations to addressing all of K 12 education Yet these reform projects share a common context a world view on what matters in science and mathematics for students of the 1990s and beyond convictions about what constitutes effective instruction and some notions about how

school change can be brought about These commonalities are drawn out in the book and illustrated with examples from the individual case studies that are reported in full in Bold Ventures Volumes 2 and 3 The eight innovations all of them projects that are well known at least by name to U S audiences are briefly described in chapter 1 Each was the subject of an in depth three year case study The research teams analyzed many documents attended numerous project meetings visited multiple sites conducted dozens of individual interviews The team leaders having spent much time with mathematics or science education over long careers looked at these reform projects through several lenses the teams sifted through the mountains of data they had collected in order to tell the story of each project in rich detail **Resources in Education** ,2001-04

Transforming Middle School Science Education Paul DeHart Hurd,2000-01-01 In this penetrating volume Paul DeHart Hurd combines more than half a century of experience and current scholarship with his vision for improving the middle school science curriculum While others have failed to center adolescents in science curricula Hurd recognizes the biological social and emotional needs of this population Looking toward the future to properly educate students now Hurd's curriculum presents today's youth with the culture of science and technology that has import in their lives The end result An important contribution to the study of curriculum and a substantial pedagogical tool from an eminent thinker Handbook of International Research in Mathematics Education Lyn D. English,David Kirshner,2010-04-02 The second edition continues the mission of bringing together important new mathematics education research that makes a difference in both theory and practice It updates and extends the Handbook's original key themes and issues for international research in mathematics education for the 21st century namely priorities in international mathematics education research lifelong democratic access to powerful mathematical ideas advances in research methodologies influences of advanced technologies Each of these themes is examined in terms of learners teachers and learning contexts with theory development being an important component of all these aspects This edition also examines other catalysts that have gained increased import in recent years including a stronger focus on the teacher and teacher practice a renewed interest in theory development an increased focus on the mathematics needed in work place settings and a proliferation of research designs and methodologies that have provided unprecedented opportunities for investigating and ultimately improving mathematical teaching and learning This edition includes ten totally new chapters all other chapters are thoroughly revised and updated **The Dimensions of Time and the Challenge of School Reform** Patricia C. Gandara,2000-01-01 As the education reform movement matures into its second decade it is clear that many promising efforts have fallen short in their attempts to create real school change One reason for this is that the process of school reform is much more complex than most reformers realized or were willing to acknowledge The Dimensions of Time and the Challenge of School Reform points to another problem the problem of time and its role in both the success and failure of school reform efforts The importance of understanding the role that time plays in both learning and instruction and finding ways to provide time for teachers grappling with change and students learning to

accommodate a new language and culture are important themes in this book This book is directed to policymakers and practitioners as well as to academics in that it combines theory with the real world experiences of many who have been active in the school reform movement and who have learned through trial and error how to think about time in innovative ways Back cover *Encyclopedia of Mathematics Education* Louise Grinstein, Sally I. Lipsey, 2001-03-15 This single volume reference is designed for readers and researchers investigating national and international aspects of mathematics education at the elementary secondary and post secondary levels It contains more than 400 entries arranged alphabetically by headings of greatest pertinence to mathematics education The scope is comprehensive encompassing all major areas of mathematics education including assessment content and instructional procedures curriculum enrichment international comparisons and psychology of learning and instruction **Bold Ventures - Volume 1** S. Raizen, E.D. Britton, 1997-04-30 This book based on detailed studies of eight innovations in mathematics and science education has many insights to offer on current school reform Since each innovation studied has taken its own unique approach the set as a whole spans the spectrum from curriculum development to systemic reform from concentrating on particular school populations to addressing all of K 12 education Yet these reform projects share a common context a world view on what matters in science and mathematics for students of the 1990s and beyond convictions about what constitutes effective instruction and some notions about how school change can be brought about These commonalities are drawn out in the book and illustrated with examples from the individual case studies that are reported in full in **Bold Ventures Volumes 2 and 3** The eight innovations all of them projects that are well known at least by name to U S audiences are briefly described in chapter 1 Each was the subject of an in depth three year case study The research teams analyzed many documents attended numerous project meetings visited multiple sites conducted dozens of individual interviews The team leaders having spent much time with mathematics or science education over long careers looked at these reform projects through several lenses the teams sifted through the mountains of data they had collected in order to tell the story of each project in rich detail

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