

Mathematical Relationships In Education Laura Black

Mapping Equity and Quality in Mathematics Education - Bill Atweh 2011-01-06

Concerns about quality mathematics education are often posed in terms of the types of mathematics that are worthwhile and valuable for both the student and society in general, and about how to best support students so that they can develop this mathematics. Concerns about equity are about who is excluded from the opportunity to develop quality mathematics within our current practices and systems, and about how to remove social barriers that systematically disadvantage those students. This collection of chapters summarises our learning about the achievement of both equity and quality agendas in mathematics education and to move forward the debate on their importance for the field.

[The British National Bibliography](#) - Arthur James Wells 2009

[Equity and Excellence in Education](#) - Kris Van den Branden 2010-12-14

Throughout the world, equity and excellence in education is a major issue of concern. International comparative studies such as those carried out by OECD (PISA) have launched a worldwide debate on the effectiveness of educational systems (macro level), schools (meso level) and teachers (micro level) in terms of enhancing equity and excellence. Inspired by the OECD research and spurred by national policy-making, quantitative and qualitative research studies have recently been conducted in different parts of the globe aiming to provide deeper insight into the crucial variables that have an impact on equity, excellence or both. Among the variables that have been identified as crucial in this respect are the pupils' gender and their socio-economic and linguistic background, teachers' expectations, cognitions and pedagogical approach in the classroom, parental support, financial aspects, educational policies (e.g. priority policies, multilingual policies, early start policies), and variables related to the structure of the educational structure and system (e.g. compulsory school age, comprehensive systems, support structures, system variables enhancing spread of learners). This volume aims to compile a rich collection of research-based contributions, providing a state-of-the-art resource on what we know about this topic today.

[Research and Development in University Mathematics Education](#) - Viviane Durand-Guerrier 2021-04-16

In the last thirty years or so, the need to address the challenges of teaching and learning mathematics at university level has become increasingly appreciated by university mathematics teachers, and beyond, by educational institutions around the world. Indeed, mathematics is both a condition and an obstacle to success for students in many educational programmes vital to the 21st century knowledge society, for example in pure and applied mathematics, engineering, natural sciences, technology, economics, finance, management and so on. This breadth of impact of mathematics implies the urgency of developing research in university mathematics education, and of sharing results of this research widely. This book provides a bespoke opportunity for an international audience of researchers in didactics of mathematics, mathematicians and any teacher or researcher with an interest in this area to be informed about state-of-the-art developments and to heed future research agendas. This book emerged from the activities of the research project INDRUM (acronym for International Network for Didactic Research in University Mathematics), which aims to contribute to the development of research in didactics of mathematics at all levels of tertiary education, with a particular concern for the development of early-career researchers in the field and for dialogue with university mathematicians. The aim of the book is to provide a deep synthesis of the research field as it appears through two INDRUM conferences organised in 2016 and 2018. It is an original contribution which highlights key research perspectives, addresses seminal theoretical and methodological issues and reports substantial results concerning the teaching and learning of mathematics at university level, including the teaching and learning of specific topics in advanced mathematics across a wide range of university programmes.

The Routledge Handbook of Language and Science - David R. Gruber 2019-11-28

The Routledge Handbook of Language and Science provides a state-of-the-art volume on the language of scientific processes and communications. This book offers comprehensive coverage of socio-cultural approaches to science, as well as analysing new theoretical developments and incorporating discussions about future directions within the field. Featuring original contributions from an international range of renowned scholars, as well as academics at the forefront of innovative research, this handbook: identifies common objects of inquiry across the areas of rhetoric, sociolinguistics, communication studies, science and technology studies, and public understanding of science; covers the four key themes of power, pedagogy, public engagement, and materiality in relation to the study of scientific language and its development; uses qualitative and quantitative approaches to demonstrate how humanities and social science scholars can go about studying science; details the meaning and purpose of socio-cultural approaches to science, including the impact of new media technologies; analyses the history of the field and how it positions itself in relation to other areas of study. Ushering the study of language and science toward a more interdisciplinary, diverse, communal and ecological future, The Routledge Handbook of Language and Science is an essential reference for anyone with an interest in this area.

Reading and Writing the World with Mathematics - Eric Gutstein 2012-09-10

Mathematics education in the United States can reproduce social inequalities whether schools use either "basic-skills" curricula to prepare mainly low-income students of color for low-skilled service jobs or "standards-based" curricula to ready students for knowledge-intensive positions. And working for fundamental social change and rectifying injustice are rarely included in any mathematics curriculum. Reading and Writing the World with Mathematics argues that mathematics education should prepare students to investigate and critique injustice, and to challenge, in words and actions, oppressive structures and acts. Based on teacher-research, the book provides a theoretical framework and practical examples for how mathematics educators can connect schooling to a larger sociopolitical context and concretely teach mathematics for social justice.

[Building Support for Scholarly Practices in Mathematics Methods](#) - Signe E. Kastberg 2017-09-01

Building Support for Scholarly Practices in Mathematics Methods is the product of collaborations among over 40 mathematics teacher educators (MTEs) who teach mathematics methods courses for prospective PreK-12 teachers in many different institutional contexts and structures. Each chapter unpacks ways in which MTEs use theoretical perspectives to inform their construction of goals, activities designed to address those goals, facilitation of activities, and ways in which MTEs make sense of experiences prospective teachers have as a result. The book is organized in seven sections that highlight how the theoretical perspective of the instructor impacts scholarly inquiry and practice. The final section provides insight as we look backward to reflect, and forward with excitement, moving with the strength of the variation we found in our stories and the feeling of solidarity that results in our understandings of purposes for and insight into teaching mathematics methods. This book can serve as a resource for MTEs as they discuss and construct scholarly practices and as they undertake scholarly inquiry as a means to systematically examine their practice.

[Helping Children Learn Mathematics](#) - National Research Council 2002-07-31

Results from national and international assessments indicate that school children in the United States are not learning mathematics well enough. Many students cannot correctly apply computational algorithms to solve problems. Their understanding and use of decimals and fractions are especially weak. Indeed, helping all children succeed in mathematics is an imperative national goal. However, for our youth to succeed, we need to change how we're teaching this discipline. Helping Children Learn Mathematics provides comprehensive and reliable information that will guide efforts to improve school mathematics from pre-kindergarten through eighth grade. The authors explain the five strands of mathematical proficiency and

discuss the major changes that need to be made in mathematics instruction, instructional materials, assessments, teacher education, and the broader educational system and answers some of the frequently asked questions when it comes to mathematics instruction. The book concludes by providing recommended actions for parents and caregivers, teachers, administrators, and policy makers, stressing the importance that everyone work together to ensure a mathematically literate society.

Inside the Mathematics Class - Uwe Gellert 2018-09-26

This volume is a forward-looking intersection of Sociological perspectives on mathematics classrooms and socio-political perspectives on mathematics education. The first perspective has generated a substantial body of knowledge in the mathematics education. Interactionist research has deepened our understanding of interaction processes, socio-mathematical norms and the negotiation of meaning, generating a 'micro-sociology' or a 'micro-ethnography' of the mathematics classroom. More recently, socio-political perspectives on mathematics education interrelate educational practices in mathematics with macro-social issues of social equity, class, and race and with the policies that regulate institutionalized mathematics education. This book documents, strings together and juxtaposes research that uses ethnographical classroom data to explain, on the one hand, how socio-political issues play out in the mathematics class. On the other hand, it illuminates how class, race etc. affect the micro-sociology of the mathematics classroom. The volume advances the knowledge in the field by providing an empirical grounding of socio-political research on mathematics education, and it extends the frame in which mathematical classroom cultures are conceived.

Systemization in Foreign Language Teaching - Wilfried Decoo 2011-06-23

Foreign language learning is a progressive endeavor. Whatever the method, the learner should advance from one point to another, constantly improving. Growing proficiency entails growing language content. Content is complex, displaying many dimensions. Syllabus designers, textbook authors, and teachers often struggle with the monitoring of content. Computer-assisted systemization helps to handle it in a manageable framework. Besides inventorying content, it ensures more balanced selections, calculated progression, and controlled reiteration of previously learned material. It gauges the usability of authentic material in relation to the level attained. During the teaching process, it allows the instant selection of items needed for a communicative situation, focus on forms, or particular exercises. This book first describes the theoretical background for systemization, including a historical overview, with special attention to the Common European Framework and the new Profiles and Referentials. Next the practical steps for computer-assisted implementation with examples taken from French and English, but applicable to any language.

Changing Schools in an Era of Globalization - John Chi-Kin Lee 2012-04-27

Much has been written about globalization and the challenge of preparing young people for the new world of work and life in times of complexity and continuous change. However, few works have examined how globalization has and will continue to shape education in the East. This volume discusses education within the context of globalization and examines what is occurring in schools and systems of education in the People's Republic of China, Hong Kong, Chinese Taipei, Singapore, and Australia. Closer examination of recent developments and current trends reveal the same turbulence and a range of common issues in areas such as assessment, curriculum, leadership, management of change, pedagogy, policy, professional capacity and technology. This volume demonstrates the commonalities and differences and offers tremendous insight into the way things are done in places where student achievement is high but there is also a sense of urgency in continuing an agenda of change.

Exploring Talk in School - Neil Mercer 2008-09-23

Selected as an Outstanding Academic Title by Choice Magazine, January 2010 Classroom talk, by which children make sense of what their peers and teachers mean, is the most important educational tool for guiding the development of understanding and for jointly constructing knowledge. So what practical steps can teachers take to develop effective classroom interaction? Bringing together leading international researchers and drawing on the pioneering work of Douglas Barnes, this book considers ways of improving classroom talk. Chapters cover: - classroom communication and managing social relations; - talk in science classrooms; - using critical conversations in studying literature; - exploratory talk and thinking skills; -

talking to learn and learning to talk in the mathematics classroom; - the 'emerging pedagogy' of the spoken word. With an accessible blend of theory, research and practice, the book will be a valuable resource for teachers, teacher-trainers, policy makers, researchers and students.

Debates in Mathematics Education - Dawn Leslie 2013-10-01

Debates in Mathematics Education explores the major issues that mathematics teachers encounter in their daily lives. It engages with established and contemporary debates, promotes and supports critical reflection and aims to stimulate both novice and experienced teachers to reach informed judgements and argue their point of view with deeper theoretical knowledge and understanding. Written by experts in the field of mathematics education, it investigates and offers fresh insight into topics of central importance, including: Gender, social inequality and mathematics Mathematics, politics and climate change The history and culture of mathematics Using popular culture in the mathematics classroom The concept of 'ability' and its impact on learning What we mean by 'teaching for understanding' Choosing and using examples in teaching The fitness of formal examinations. Designed to stimulate discussion and support you in your own research, writing and practice, Debates in Mathematics Education will be a valuable resource for any student or practising teacher engaged in initial teacher training, continuing professional development or Masters level study. It also has much to offer to those leading initial teacher education programmes, and to beginning doctoral students looking for a survey of the field of mathematics education research.

Mathematics Success and Failure Among African-American Youth - Danny Bernard Martin 2000

No matter how mathematics achievement and persistence are measured, African Americans seem to lag behind their peers. This state of affairs is typically explained in terms of student ability, family background, differential treatment by teachers, and biased curricula. But what can explain disproportionately poor performance and persistence of African-American students who clearly possess the ability to do well, who come from varied family and socioeconomic backgrounds, who are taught by caring and concerned teachers, and who learn mathematics in the context of a reform-oriented mathematics curriculum? And, why do some African-American students succeed in mathematics when underachievement is the norm among their fellow students? Danny Martin addresses these questions in Mathematics Success and Failure Among African-American Youth, the results of a year-long ethnographic and observational study of African-American students and their parents and teachers. Mathematics Success and Failure Among African-American Youth goes beyond the conventional explanations of ability, socioeconomic status, differential treatment, and biased curricula to consider the effects of history, community, and peers--and the individual agency that allows some students to succeed despite these influences. Martin's analysis suggests that prior studies of mathematics achievement and persistence among African Americans have failed to link sociohistorical, community, school, and intrapersonal forces in sufficiently meaningful ways, and that they suffer from theoretical and methodological limitations that hinder the ability of mathematics educators to reverse the negative achievement and persistence trends that continue to afflict African-American students. The analyses and findings offered in Martin's book lead to exciting implications for future research and intervention efforts concerning African-American students--and other students for whom history and context play an important role. This book will be useful and informative to many groups: mathematics education researchers, education researchers interested in the social context of learning and teaching, policymakers, preservice and in-service teachers, students, parents, and community advocates. It will also be of interest to readers concerned with multicultural education, cross-cultural studies of mathematics learning, sociology of education, Black Studies, and issues of underrepresentation in science and mathematics.

The Best Writing on Mathematics 2010 - Mircea Pitici 2021-09-14

The year's most memorable writing on mathematics This anthology brings together the year's finest writing on mathematics from around the world. Featuring promising new voices alongside some of the foremost names in mathematics, The Best Writing on Mathematics makes available to a wide audience many articles not easily found anywhere else—and you don't need to be a mathematician to enjoy them. These writings offer surprising insights into the nature, meaning, and practice of mathematics today. They delve into the history, philosophy, teaching, and everyday occurrences of math, and take readers behind the scenes of today's hottest mathematical debates. Here readers will discover why Freeman Dyson thinks some

mathematicians are birds while others are frogs; why Keith Devlin believes there's more to mathematics than proof; what Nick Paumgarten has to say about the timing patterns of New York City's traffic lights (and why jaywalking is the most mathematically efficient way to cross Sixty-sixth Street); what Samuel Arbesman can tell us about the epidemiology of the undead in zombie flicks; and much, much more. In addition to presenting the year's most memorable writing on mathematics, this must-have anthology also includes a foreword by esteemed mathematician William Thurston and an informative introduction by Mircea Pitici. This book belongs on the shelf of anyone interested in where math has taken us—and where it's headed.

Collaboration in Education - Judith J. Slater 2010-04-15

Establishing a needed framework for school/university collaborations, this title explores the elements necessary for sustainable collaboration in order to provide a frame of reference for others doing this work. It also includes analyses of school/university projects in the United States, Asia and Europe.

Mathematics as the Science of Patterns - Patrick M. Jenlink 2022

Mathematics as the Science of Patterns: Making the Invisible Visible to Students through Teaching introduces the reader to a collection of thoughtful, research-based works by authors that represent current thinking about mathematics, mathematics education, and the preparation of mathematics teachers. Each chapter focuses on mathematics teaching and the preparation of teachers who will enter classrooms to instruct the next generation of students in mathematics. The value of patterns to the teaching and learning of mathematics is well understood, both in terms of research and application. When we involve or appeal to pattern in teaching mathematics, it is usually because we are trying to help students to extract greater meaning, or enjoyment, or both, from the experience of learning environments within which they are occupied, and perhaps also to facilitate remembering. As a general skill it is thought that the ability to discern a pattern is a precursor to the ability to generalize and abstract, a skill essential in the early years of learning and beyond. Research indicates that the larger problem in teaching mathematics does not lie primarily with students; rather it is with the teachers themselves. In order to make changes for students there first needs to be a process of change for teachers. Understanding the place of patterns in learning mathematics is a predicate to understanding how to teach mathematics and how to use pedagogical reasoning necessary in teaching mathematics. Importantly, the lack of distinction created by the pedagogical use of patterns is not immediately problematic to the student or the teacher. The deep-seated cognitive patterns that both teachers and students bring to the classroom require change. Chapter 1 opens the book with a focus on mathematics as the science of patterns and the importance of patterns in mathematical problem solving, providing the reader with an introduction. The authors of Chapter 2 revisit the work of Pólya and the development and implementation of problem solving in mathematics. In Chapter

3, the authors present an argument for core pedagogical content knowledge in mathematics teacher preparation. The authors of Chapter 4 focus on preservice teachers' patterns of conception as related to understanding number and operation. In Chapter 5 the authors examine the role of visual representation in exploring proportional reasoning, denoting the importance of helping learners make their thinking visible. The authors of Chapter 6 examine patterns and relationships, and the importance of each in assisting students' learning and development in mathematical understanding. The authors of Chapter 7 examine the use of worked examples as a scalable practice, with emphasis on the importance of worked examples in teaching fraction magnitude and computation is discussed. In Chapter 8, the authors expand on the zone of proximal development to investigate the potential of Zankov's Lesson in terms of students analyzing numerical equalities. The authors of Chapter 9 focus on high leverage mathematical practices in elementary pre-service teacher preparation, drawing into specific relief the APEX cycle to develop deep thinking. In Chapter 10, the author focuses on number talks and the engagement of students in mathematical reasoning, which provides opportunities for students to be sensemakers of mathematics. Chapter 11 presents an epilogue, focusing on the importance of recognizing the special nature of mathematics knowledge for teaching.

Mathematical Relationships in Education - Laura Black 2011-01-13

This book brings together scholars working in the field of mathematics education to examine the ways in which learners form particular relationships with mathematics in the context of formal schooling. While demand for the mathematically literate citizen increases, many learners continue to reject mathematics and experience it as excluding and exclusive, even when they succeed at it. In exploring this phenomenon, this volume focuses on learners' developing sense of self and their understanding of the part played by mathematics in it. It recognizes the part played by emotional responses, the functioning of classroom communities of practice, and by discourses of mathematics education in this process. It thus blends perspectives from psychoanalysis, socio-cultural theory and discursive approaches in a focus on the classic issues of selection and assessment, pedagogy, curriculum, choice, and teacher development.

Journal for Research in Mathematics Education - 2012

Social Interactions in Multicultural Settings - 2019-02-11

Multicultural issues are part of the agenda for researchers, academics, and politicians. The new technologies have brought multiculturalism into our professional and personal lives, opening new possibilities for social interactions among people from different countries, cultures, ages, and gender. Being able to deal with diversity, including other cultures, is a must in the 21st century.

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