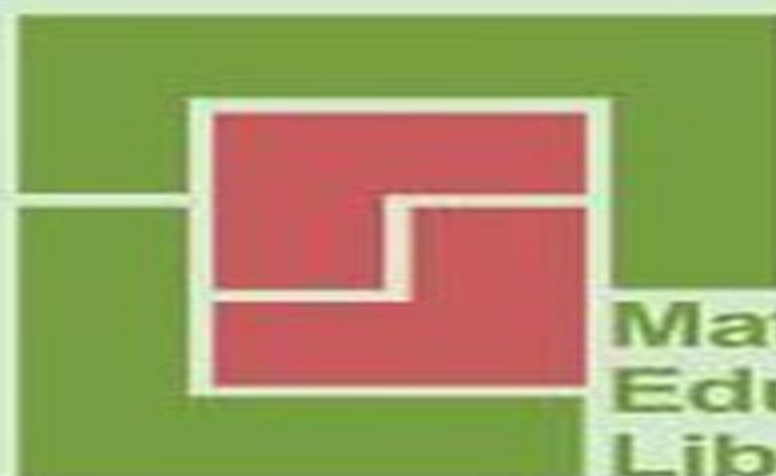


Mathematical Knowledge: Its Growth Through Teaching

Edited by

Alan J. Bishop, Stieg Mellin-Olsen
and Joop van Dormolen (eds.)



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Mathematical Knowledge Its Growth Through Teaching

Tim Rowland, Kenneth Ruthven



Mathematical Knowledge Its Growth Through Teaching:

Mathematical Knowledge: Its Growth Through Teaching Alan J. Bishop, Stieg Mellin-Olsen, Joop van Dormolen, J. van Dormolen, 1991-10-31 The book focuses on the genesis of mathematical knowledge in the classroom As with the first project the concerns are with fundamental analysis of the problem field and various approaches are presented in the book which will stimulate new thinking about research and teacher development Mathematical Knowledge: Its Growth Through Teaching Alan Bishop, Stieg Mellin-Olsen, Joop van Dormolen, 2013-11-27 In the first BACOMET volume different perspectives on issues concerning teacher education in mathematics were presented B Christiansen A G Howson and M Otte Perspectives on Mathematics Education Reidel Dordrecht 1986 Underlying all of them was the fundamental problem area of the relationships between mathematical knowledge and the teaching and learning processes The subsequent project BACOMET 2 whose outcomes are presented in this book continued this work especially by focusing on the genesis of mathematical knowledge in the classroom The book developed over the period 1985-9 through several meetings much discussion and considerable writing and redrafting Our major concern was to try to analyse what we considered to be the most significant aspects of the relationships in order to enable mathematics educators to be better able to handle the kinds of complex issues facing all mathematics educators as we approach the end of the twentieth century With access to mathematics education widening all the time with a multitude of new materials and resources being available each year with complex cultural and social interactions creating a fluctuating context of education with all manner of technology becoming more and more significant and with both informal education through media of different kinds and non formal education courses of training etc growing apace the nature of formal mathematical education is increasingly needing analysis *Mathematical Knowledge in Teaching* Tim Rowland, Kenneth Ruthven, 2011-01-06 The quality of primary and secondary school mathematics teaching is generally agreed to depend crucially on the subject related knowledge of the teacher However there is increasing recognition that effective teaching calls for distinctive forms of subject related knowledge and thinking Thus established ways of conceptualizing developing and assessing mathematical knowledge for teaching may be less than adequate These are important issues for policy and practice because of longstanding difficulties in recruiting teachers who are confident and conventionally well qualified in mathematics and because of rising concern that teaching of the subject has not adapted sufficiently The issues to be examined in *Mathematical Knowledge in Teaching* are of considerable significance in addressing global aspirations to raise standards of teaching and learning in mathematics by developing more effective approaches to characterizing assessing and developing mathematical knowledge for teaching **Learning Through Teaching** **Mathematics** Roza Leikin, Rina Zazkis, 2010-04-10 The idea of teachers Learning through Teaching LTT when presented to a naive bystander appears as an oxymoron Are we not supposed to learn before we teach After all under the usual circumstances learning is the task for those who are being taught not of those who teach However this book is about the

learning of teachers not the learning of students It is an ancient wisdom that the best way to truly learn something is to teach it to others Nevertheless once a teacher has taught a particular topic or concept and consequently truly learned it what is left for this teacher to learn As evident in this book the experience of teaching presents teachers with an exciting opportunity for learning throughout their entire career This means acquiring a better understanding of what is being taught and moreover learning a variety of new things What these new things may be and how they are learned is addressed in the collection of chapters in this volume LTT is acknowledged by multiple researchers and mathematics educators In the first chapter Leikin and Zazkis review literature that recognizes this phenomenon and stress that only a small number of studies attend systematically to LTT processes The authors in this volume purposefully analyze the teaching of mathematics as a source for teachers own learning

Forms of Mathematical Knowledge Dina Tirosh, 2013-03-14 What mathematics is entailed in knowing to act in a moment Is tacit rhetorical knowledge significant in mathematics education What is the role of intuitive models in understanding learning and teaching mathematics Are there differences between elementary and advanced mathematical thinking Why can't students prove What are the characteristics of teachers ways of knowing This book focuses on various types of knowledge that are significant for learning and teaching mathematics The first part defines discusses and contrasts psychological philosophical and didactical issues related to various types of knowledge involved in the learning of mathematics The second part describes ideas about forms of mathematical knowledge that are important for teachers to know and ways of implementing such ideas in preservice and in service education The chapters provide a wide overview of current thinking about mathematics learning and teaching which is of interest for researchers in mathematics education and mathematics educators Topics covered include the role of intuition in mathematics learning and teaching the growth from elementary to advanced mathematical thinking the significance of genres and rhetoric for the learning of mathematics and the characterization of teachers ways of knowing

Why Teach Mathematics? H.W. Heymann, 2013-06-29 Seven years after its publication in Germany this book is now available to English readers In the German speaking countries the publication led to intense controversies on the significance the goals and the future development of mathematics instruction in schools Currently there is much debate in many countries on how to evaluate the findings of such international comparative studies as TIMSS and PISA debate on which consequences should be taken for designing national curricula and on which reforms of mathematics instruction in schools should be initiated I hope that this book might provide substantial suggestions beneficial to resolving these and similar issues for its major concern is twofold first to determine the essential characteristics of general education in schools and secondly on the basis of this to specify the status of mathematics instruction within the framework of general education in schools Due to the fundamental nature of my argument I did not consider it necessary to update the book superficially for the English edition Thus I am presenting the book to the English speaking public in its original form the single exception being that I have omitted the original second chapter since that

chapter Bildung und Allgemeinbildung seems to be relevant only to those readers especially interested in German educational debates Most of those readers in turn will belong to the German speaking public The omission of this chapter necessitated a few insignificant alterations in the otherwise unchanged introduction and at the beginning of the present second originally third chapter

Resources in Education, 1994 *Becoming the Math Teacher You Wish You'd Had* Tracy Johnston Zager, 2023-10-10 Ask mathematicians to describe mathematics and they'll use words like playful beautiful and creative Pose the same question to students and many will use words like boring useless and even humiliating *Becoming the Math Teacher You Wish You'd Had* author Tracy Zager helps teachers close this gap by making math class more like mathematics Zager has spent years working with highly skilled math teachers in a diverse range of settings and grades and has compiled those ideas from these vibrant classrooms into this game changing book Inside you'll find How to Teach Student Centered Mathematics Zager outlines a problem solving approach to mathematics for elementary and middle school educators looking for new ways to inspire student learning Big Ideas Practical Application This math book contains dozens of practical and accessible teaching techniques that focus on fundamental math concepts including strategies that simulate connection of big ideas rich tasks that encourage students to wonder generalize hypothesize and persevere and routines to teach students how to collaborate *Becoming the Math Teacher You Wish You'd Had* offers fresh perspectives on common challenges from formative assessment to classroom management for elementary and middle school teachers No matter what level of math class you teach Zager will coach you along chapter by chapter All teachers can move towards increasingly authentic and delightful mathematics teaching and learning This important book helps develop instructional techniques that will make the math classes we teach so much better than the math classes we took

Handbook of International Research in Mathematics Education Lyn D. English, 2002-03 This state of the art Handbook brings together important mathematics education research that makes a difference in both theory and practice research that anticipates problems and needed knowledge before they become impediments to progress interprets future oriented problems into researchable issues presents the implications of research and theory development in forms that are useful to practitioners and policymakers and facilitates the development of research communities to focus on neglected priorities or strategic opportunities The volume represents a genuine attempt by contributors from around the world to advance the discipline rather than simply review what has been done and what exists The Handbook was developed in response to a number of major global catalysts for change including the impact of national and international mathematics comparative assessment studies the social cultural economic and political influences on mathematics education and research the influence of progressively sophisticated and available technology and the increasing globalization of mathematics education and research From these catalysts have emerged specific priority themes and issues for mathematics education research in the 21st century Three key themes were identified for attention in this volume life long democratic access to powerful mathematical ideas advances in research

methodologies and influences of advanced technologies Each of these themes is examined in terms of learners teachers and learning contexts with theory development as an important component of all these aspects Dynamic and forward looking the Handbook of International Research in Mathematics Education is distinguished by its focus on new and emerging theoretical models perspectives and research methodologies its uniformly high standard of scholarship and its emphasis on the international nature of mathematics education research It is an essential volume for all researchers professionals and students interested in mathematics education research in particular and more generally in international developments and future directions in the broad field of educational research

Perspectives on Adults Learning Mathematics D. Coben, J. O'Donoghue, Gail E. FitzSimons, 2006-05-10 At a time when the importance of lifelong education is becoming recognised around the world this is the first book to explore an important but hitherto neglected area adult mathematics education This book is about adults learning mathematics wherever and in whatever circumstances they do so It brings together researchers in the field and aims to lay the foundations for study and further research and practice in this fast developing area It aims to situate research and practice in adults learning mathematics within the wider field of lifelong learning and lifelong education and to be accessible both to the specialist and to the general adult reader The book features a comprehensive review of the field which sets the scene for sections on Perspectives on Research on Adults Learning Mathematics Adults Mathematics Culture and Society Adults Mathematics and Work and Perspectives in Teaching Adults Mathematics Topics covered include mathematics and common sense statistical literacy and numeracy new theories on learning mathematics mathematical competences for the workplace ethnomathematics and the training of tutors

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