# 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**

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# **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 **Mathematical Knowledge: Its Growth Through** stimulate new thinking about research and teacher development **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 multi tude 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

Resources in Education ,1994 Serves as an index to Eric reports microform Handbook of Research on Teaching
Drew Gitomer, Courtney Bell, 2016-05-19 The Fifth Edition of the Handbook of Research on Teachingis an essential resource
for students and scholars dedicated to the study of teaching and learning This volume offers a vast array of topics ranging
from the history of teaching to technological and literacy issues In each authoritative chapter the authors summarize the
state of the field while providing conceptual overviews of critical topics related to research on teaching Each of the volume s
23 chapters is a canonical piece that will serve as a reference tool for the field The Handbook provides readers with an
unaparalleled view of the current state of research on teaching across its multiple facets and related fields Middle
Grade Teachers' Mathematical Knowledge and Its Relationship to Instruction Judith Sowder, Randolph A.
Philipp, Barbara E. Armstrong, Bonnie P. Schappelle, 1998-07-16 The outcome of a two year investigation this book shows how
teachers understanding of the mathematics of number quantity and proportion influences how they teach and what their
students learn of the concepts skills and reasoning associated with this mathematical domain of knowledge It grew out of the
recognition of the need to understand the complexities of helping teachers reconceptualize the mathematics they teach and

the resulting effects in their classrooms. The book includes case studies of five teachers from different types of school settings illustrating changes in the teachers teaching methods expectations of students and beliefs about the role of professional Approaches to Qualitative Research in Mathematics Education Angelika Bikner-Ahsbahs, Christine Knipping, Norma Presmeg, 2014-11-26 This volume documents a range of qualitative research approaches emerged within mathematics education over the last three decades whilst at the same time revealing their underlying methodologies Continuing the discussion as begun in the two 2003 ZDM issues dedicated to qualitative empirical methods this book presents a tate of the art overview on qualitative research in mathematics education and beyond The structure of the book allows the reader to use it as an actual guide for the selection of an appropriate methodology on a basis of both theoretical depth and practical implications. The methods and examples illustrate how different methodologies come to life when applied to a specific question in a specific context Many of the methodologies described are also applicable outside mathematics education but the examples provided are chosen so as to situate the approach in a mathematical context Learning Proof Across the Grades Despina A. Stylianou, Maria L. Blanton, Eric J. Knuth, 2010-09-23 A Co Publication of Routledge for the National Council of Teachers of Mathematics NCTM In recent years there has been increased interest in the nature and role of proof in mathematics education with many mathematics educators advocating that proof should be a central part of the mathematics education of students at all grade levels. This important new collection provides that much needed forum for mathematics educators to articulate a connected K 16 story of proof Such a story includes understanding how the forms of proof including the nature of argumentation and justification as well as what counts as proof evolve chronologically and cognitively and how curricula and instruction can support the development of students understanding of proof Collectively these essays inform educators and researchers at different grade levels about the teaching and learning of proof at each level and thus help advance the design of further empirical and theoretical work in this area By building and extending on existing research and by allowing a variety of voices from the field to be heard Teaching and Learning Proof Across the Grades not only highlights the main ideas that have recently emerged on proof research but also defines an agenda for future study Reconceptualizing Early Mathematics Learning Lyn D. English, Joanne T. Mulligan, 2013-05-09 This book emanated primarily from concerns that the mathematical capabilities of young children continue to receive inadequate attention in both the research and instructional arenas Research over many years has revealed that young children have sophisticated mathematical minds and a natural eagerness to engage in a range of mathematical activities As the chapters in this book attest current research is showing that young children are developing complex mathematical knowledge and abstract reasoning a good deal earlier than previously thought A range of studies in prior to school and early school settings indicate that young learners do possess cognitive capacities which with appropriately designed and implemented learning experiences can enable forms of reasoning not typically seen in the early years Although there is a

large and coherent body of research on individual content domains such as counting and arithmetic there have been remarkably few studies that have attempted to describe characteristics of structural development in young students mathematics Collectively the chapters highlight the importance of providing more exciting relevant and challenging 21st century mathematics learning for our young students The chapters provide a broad scope in their topics and approaches to advancing young children's mathematical learning They incorporate studies that highlight the importance of pattern and structure across the curriculum studies that target particular content such as statistics early algebra and beginning number and studies that consider how technology and other tools can facilitate early mathematical development Reconceptualising the professional learning of teachers in promoting young children's mathematics including a consideration of the role of play is also addressed Learning and Teaching Mathematics Peter Bryant, Terezinha Nunes, 2016-01-28 The authors of this volume which is newly available in paperback all hold the view that mathematics is a form of intelligent problem solving which plays an important part in children's lives outside the classroom as well as in it Learning and Teaching Mathematics provides an exciting account of recent and radically different research on teaching and learning mathematics which will have a far reaching effect on views about mathematical education New Directions for Mathematics Education Research on Proving Keith Weber, Miloš Savić, 2025-08-03 This book summarizes new directions in mathematics education research on proving at the university level thereby providing contemporary extensions of the sub fields of proof that Annie and John Selden introduced to the field The chapters each describe an emerging new area of proof research review the relevant findings in this area present open research questions and the tools to address them The book also discusses proof as a literary genre and how students feelings during the proof writing process can influence their behavior The concluding chapter of the book reflects on new directions for research on proving As such this book provides mathematics educators who have extensive experience researching proof with an up to date review of the new methodologies and research questions with regard to proof and young scholars interested in proof can use these chapters as primers on which they can build a Learning from Computers: Mathematics Education and Technology Christine Keitel-Kreidt, Kenneth research program Ruthven, 2012-12-06 The NATO Advanced Research Workshop on Mathematics Education and Technology was held in Villard de Lans France between May 6 and 11 1993 Organised on the initiative of the BaCoMET Basic Components of Mathematics Education for Teachers group Christiansen Howson and Otte 1986 Bishop Mellin Olsen and van Dormolen 1991 the workshop formed part of a larger NATO programme on Advanced Educational Technology Some workshop members had already participated in earlier events in this series and were able to contribute insights from them similarly some members were to take part in later events The problematic for the workshop drew attention to important speculative developments in the applications of advanced information technology in mathematics education over the last decade notably intelligent tutoring geometric construction symbolic algebra and statistical analysis Over the same period more elementary forms of information

technology had started to have a significant influence on teaching approaches and curriculum content notably arithmetic and graphic calculators standard computer tools such as spreadsheets and databases and computer assisted learning packages and computer microworlds specially designed for educational purposes Mathematics Education as a Research Domain: A Search for Identity Anna Sierpinska, Jeremy Kilpatrick, 2013-03-14 No one disputes how important it is in today s world to prepare students to un derstand mathematics as well as to use and communicate mathematics in their future lives That task is very difficult however Refocusing curricula on funda mental concepts producing new teaching materials and designing teaching units based on mathematicians common sense or on logic have not resulted in a better understanding of mathematics by more students. The failure of such efforts has raised questions suggesting that what was missing at the outset of these proposals designs and productions was a more profound knowledge of the phenomena of learning and teaching mathematics in socially established and culturally politically and economically justified institutions namely schools Such knowledge cannot be built by mere juxtaposition of theories in disci plines such as psychology sociology and mathematics Psychological theories focus on the individual learner Theories of sociology of education look at the general laws of curriculum development the specifics of pedagogic discourse as opposed to scientific discourse in general the different possible pedagogic relations between the teacher and the taught and other general problems in the interface between education and society Mathematics aside from its theoretical contents can be looked at from historical and epistemological points of view clarifying the genetic development of its concepts methods and theories This view can shed some light on the meaning of mathematical concepts and on the difficulties students have in teaching approaches that disregard the genetic development of these concepts Effective Mathematics Teaching from Teachers' Perspectives ,2009-01-01 What is effective mathematics teaching This book represents the first purposeful cross cultural collection of studies to answer this question from teachers perspectives It focuses particularly on how teachers view effective teaching of mathematics Teachers voices are heard and celebrated throughout the studies reported in this volume These studies are drawn from many parts of the world representing both Eastern and Western cultural traditions The editors and authors have deliberately included the views of teachers and educators from different cultural backgrounds taking into account that beliefs on effective mathematics teaching and its features are highly influenced by one s own culture The book will provide readers and scholars with the stimulus to take the ideas presented and expand on them in ways that help improve mathematics education for children teachers and researchers in both the East and the West *New Directions for Situated Cognition in Mathematics Education* Anne Watson, Peter Winbourne, 2008-01-03 This book draws together a range of papers by experienced writers in mathematics education who have used the concept of situated cognition in their research within recent years No other books are available which take this view specifically in mathematics education Thus it provides an up to date overview of developments and applications to which other researchers can refer and which will inspire future research

Interdisciplinary Perspectives on Math Cognition Marcel Danesi, 2019-09-14 This is an anthology of contemporary studies from various disciplinary perspectives written by some of the world's most renowned experts in each of the areas of mathematics neuroscience psychology linguistics semiotics education and more Its purpose is not to add merely to the accumulation of studies but to show that math cognition is best approached from various disciplinary angles with the goal of broadening the general understanding of mathematical cognition through the different theoretical threads that can be woven into an overall understanding This volume will be of interest to mathematicians cognitive scientists educators of mathematics philosophers of mathematics semioticians psychologists linguists anthropologists and all other kinds of scholars who are interested in the nature origin and development of mathematical cognition Handbook of Research on the Psychology of Mathematics Education ,2006-01-01 This volume is a compilation of the research produced by the International Group for the Psychology of Mathematics Education PME since its creation 30 years ago It has been written to become an essential reference for Mathematics Education research in the coming years The chapters offer summaries and synthesis of the research produced by the PME Group presented to let the readers grasp the evolution of paradigms questions methodologies and most relevant research results during the last 30 years They also include extensive lists of references Beyond this the chapters raise the main current research questions and suggest directions for future research The handbook is divided into five sections devoted to the main research domains of interest to the PME Group The first three sections summarize cognitively oriented research on learning and teaching specific content areas transversal areas and based on technology rich environments The fourth section is devoted to the research on social affective cultural and cognitive aspects of Mathematics Education Finally the fifth section includes two chapters summarizing the PME research on teacher training and professional life of mathematics teachers The volume is the result of the effort of 30 authors and 26 reviewers Most of them are recognized leading PME researchers with great expertise on the topic of their chapter This handbook shall be of interest to both experienced researchers and doctoral students needing detailed synthesis of the advances and future directions of research in Mathematics Education and also to mathematics teacher trainers who need to have a comprehensive reference as background for their courses on Mathematics Education In Search of a Pedagogy of Conflict and Dialogue for Mathematics Education Renuka Vithal, 2012-12-06 In Search of a Pedagogy for Conflict and Dialogue for Mathematics Education is of interest to mathematics educators researchers in mathematics education gender social justice equity and democracy in education and practitioners teachers interested in the use of project work in mathematics teaching and learning This book brings together diverse recent developments exploring social cultural political dimensions in mathematics education It builds theoretical ideas from a careful substantial description of practice in the attempt to improve both theory and practice in mathematics education In doing so it interrogates and develops theoretical research tools for mathematics education and simultaneously provides ideas for practice in mathematics classrooms Advances in Mathematics and STEM

Education, 2025-01-20 This volume Advances in Mathematics and STEM Education Incorporating Developments in Neuroscience Brain Science and Neurodiversity seeks to widen understandings about mathematics and STEM education through a more holistic examination of the field In some chapters this is achieved through the incorporation of advancements in Neuroscience Brain Science and Neurodiversity and in other chapters it is achieved through the sharing of research in schools with teachers or an exploration into individual experience thinking processes and journey This volume calls for engagement in research that synthesises research findings from different discipline areas to gain a more enriched and authentic understanding of Mathematics and STEM education particularly regarding teaching and learning Contributors are Nur Fatma Aktas Tasos Barkatsas Zahra Cooper Y ksel Dede Jason Dervish Melanie Evangelista Janine Forbes Rolfe Wendy Goff G rcan Kaya Gillian Kidman Huk Yuen Law Timothy Lynch Marta Mart n del Pozo Juanjo Mena Rowan Nas Antonio Patrocinio Braz Hazel Tan and Bin Wu New Mathematics Education Research and Practice, 2006-01-01 Mathematics education research has blossomed into many different areas which we can see in the programmes of the ICME conferences as well as in the various survey articles in the Handbooks However all of these lines of research are trying to grapple with a common problem the complexity of the process of learning mathematics Although our knowledge of the process is more extensive and deeper despite the fragmented nature of research in this area there is still a need to overcome this fragmentation and to see learning as one process with different aspects To overcome this fragmentation this book identifies six themes 1 mathematics culture and society 2 the structure of mathematics and its influence on the learning process 3 mathematics learning as a cognitive process 4 mathematics learning as a social process 5 affective conditions of the mathematics learning process 6 new technologies and mathematics learning This book is addressed to all researchers in mathematic education It gives an orientation and overview by addressing some carefully chosen questions on what is going on and what are the main results and questions what are important books or papers if further information is needed

Issues in Mathematics Teaching Peter Gates,2002-09-11 This book presents the key debates that the mathematics teacher will need to understand reflect on and engage in as part of their professional development Issues in Mathematics Teaching is suitable for those at initial training level right through to practising mathematics teachers Its accessible structure enables the reader to pursue the issues raised as each chapter includes suggestions for further reading and questions for reflection or debate

Enjoying the Song of Term: An Emotional Symphony within Mathematical Knowledge Its Growth Through Teaching

In a global consumed by displays and the ceaseless chatter of immediate transmission, the melodic elegance and psychological symphony produced by the prepared word usually diminish in to the backdrop, eclipsed by the persistent noise and disturbances that permeate our lives. Nevertheless, nestled within the pages of **Mathematical Knowledge Its Growth Through Teaching** a wonderful fictional treasure overflowing with fresh emotions, lies an immersive symphony waiting to be embraced. Crafted by a masterful musician of language, that fascinating masterpiece conducts readers on an emotional trip, well unraveling the hidden melodies and profound influence resonating within each carefully constructed phrase. Within the depths of the moving review, we can investigate the book is key harmonies, analyze its enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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