# Windows on Mathematical Meanings

**Learning Cultures and Computers** 

Richard Noss and Celia Hoyles



Kluwer Academic Publishers

Karen Francois, Jean Paul Van Bendegem

Windows on Mathematical Meanings Richard Noss, Celia Hoyles, 1996-06-30 This book challenges some of the conventional wisdoms on the learning of mathematics The authors use the computer as a window onto mathematical meaning making The pivot of their theory is the idea of webbing which explains how someone struggling with a new mathematical idea can draw on supportive knowledge and reconciles the individual s role in mathematical learning with the part played by epistemological social and cultural forces Windows on Mathematical Meanings Richard Noss, Celia Hoyles, 2012-12-06 This book is the culmination of some ten years theoretical and empirical investigation Throughout this period we have come into contact with many who have stimulated our thinking some of whom belong to the community of Mathematics Educators Our membership of that community has challenged us to make sense of some deep issues related to mathematical learning especially the cognitive and pedagogical faces of mathematical meaning making Alongside this community we are privileged to have been part of another whose members are centrally concerned both with mathematics and education Yet many of them might reject the label of Mathematics Educators This community has historically been clustered around what is now called the Epistemology and Learning Group at the Massachusetts Institute of Technology Their work has focused our attention on cognitive science ethnography sociology artificial intelligence and other related disciplines Crucially it has forced our awareness of the construction of computational settings as a crucial component of the struggle to understand how mathematical learning happens We have sometimes felt that few have tried to span both communities Indeed an analysis of the references in the literature would we are sure reveal that the two communities have often ignored each other's strengths One reason for writing this book is born of our hope that we might draw together Mathematics Educators and mathematics educators and assist both communities in recognising that there are insights that might be derived from each other

Learning Through Teaching Mathematics Roza Leikin, Rina Zazkis, 2010-04-10 The idea of teachers Learning through Teaching LTT when presented to a na ve 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 opp tunity 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 rst chapter Leikin and Zazkis review literature that recognizes this phenomenon and stress that only a small number of studies attend systematically to LTT p cesses The authors in this volume purposefully analyze the teaching of mathematics as

a source for teachers own learning The Handbook of Mathematics Teacher Education: Volume 4,2008-01-01 The Handbook of Mathematics Teacher Education the first of its kind addresses the learning of mathematics teachers at all levels of schooling to teach mathematics and the provision of activity and programmes in which this learning can take place It consists of four volumes Volume 4 of this handbook has the title The Mathematics Teacher Educator as a Developing Professional The volume seeks to complement the other three volumes by focusing on knowledge and roles of teacher educators working with teachers in teacher education processes and practices In this respect it is unique Chapter authors represent a community of teacher educators world wide who can speak from practical professional and theoretical viewpoints about what it means to promote teacher education practice The volume is in 3 main sections In the first we focus on Challenges to and Theory in Mathematics Teacher Education Here authors write from perspectives of theory and or challenge and relate this to examples and insights from their practice. The second section Reflection On Developing as a Mathematics Teacher Educator has four autobiographical chapters in which authors delineate their experiences as teacher educators and relate these to theoretical and or moral standpoints In Section 3 Working With Prospective and Practising Teachers What We Learn What We Come to Know authors write from perspectives on practice in many cases the practices in which they themselves have engaged and relate this to theoretical perspectives and rationales for teacher education programmes The volume also has an introductory chapter in which the purpose and content of the volume is set out and a final chapter that syntheses themes and issues from the chapters as a whole offering an overview of the field and suggesting future directions Bibliographical Information for the complete set VOLUME 1 Knowledge and Beliefs in Mathematics Teaching and Teaching Development Peter Sullivan Monash University Clayton Australia and Terry Wood Purdue University West Lafayette USA eds paperback 978 90 8790 541 5 hardback 978 90 8790 542 2 ebook 978 90 8790 543 9 VOLUME 2 Tools and Processes in Mathematics Teacher Education Dina Tirosh Tel Aviv University Israel and Terry Wood Purdue University West Lafayette USA eds paperback 978 90 8790 544 6 hardback 978 90 8790 545 3 ebook 978 90 8790 546 0 VOLUME 3 Participants in Mathematics Teacher Education Individuals Teams Communities and Networks Konrad Krainer University of Klagenfurt Austria and Terry Wood Purdue University West Lafayette USA eds paperback 978 90 8790 547 7 hardback 978 90 8790 548 4 ebook 978 90 8790 549 1 VOLUME 4 The Mathematics Teacher Educator as a Developing Professional Barbara Jaworski Loughborough University UK and Terry Wood Purdue University West Lafayette USA eds paperback 978 90 8790 550 7 hardback 978 90 8790 551 4 ebook 978 90 8790 552 1 Innovation and Technology Enhancing Mathematics Education Eleonora Faggiano, Francesca Ferrara, Antonella Montone, 2017-10-14 This book addresses key issues of Technology and Innovation s in Mathematics Education drawing on heterogeneous ways of positioning about innovation in mathematical practice with technology The book offers ideas and meanings of innovation as they emerge from the entanglement of the various researchers with the mathematical practice the teacher training program

the student learning and engagement or the research method that they are telling stories about The multiple theoretical or empirical perspectives capture a rich landscape in which the presence of digital technology entails the emergence of new practices techniques environments and devices or new ways of making sense of technology in research teaching and learning

**Dialogue and Learning in Mathematics Education** Helle Alrø, Ole Skovsmose, 2006-01-02 Dialogue and Learning in Mathematics Education is concerned with communication in mathematics class rooms In a series of empirical studies of project work we follow students inquiry cooperation as well as students obstructions to inquiry cooperation Both are considered important for a theory of learning mathematics Special attention is paid to the notions of dialogue and critique A central idea is that dialogue supports critical learning of mathematics The link between dialogue and critique is developed further by including the notions of intention and reflection Thus a theory of learning mathematics is developed which is resonant with critical mathematics education Perspectives on Practice and Meaning in Mathematics and Science Classrooms D. Clarke, 2006-04-11 This is a variegated picture of science and mathematics classrooms that challenges a research tradition that converges on the truth The reader is surrounded with different images of the classroom and will find his beliefs confirmed or challenged The book is for educational researchers research students and practitioners with an interest in optimizing the effectiveness of classrooms as environments for learning Using Mobile Technologies in the **Teaching and Learning of Mathematics** Nigel Calder, Kevin Larkin, Nathalie Sinclair, 2018-08-09 Mobile technologies influence the way that we interact with the world the way that we live We use them for communication entertainment information and research In education settings there has been substantial investment in mobile devices often without a concomitant investment in developing pedagogy and practices With mobile technologies evolving rapidly and the number of educational apps growing there is a need for research into how they facilitate mathematics learning Such research is of particular importance regarding how such devices may be used to open up new ways of envisaging mathematics and mathematics education and to help develop conceptual rather than procedural or declarative knowledge This volume draws upon international research and reports on a range of research projects that have incorporated mobile technologies for mathematics education It presents research on the use of mobile technologies such as iPads iPods iPhones Androids and Tablets across a diverse range of cultures year levels and contexts It examines the ways in which mobile technologies including apps might influence students engagement cognition collaboration and attitudes through the reshaping of the learning experience In addition the book presents appropriate ways to integrate mobile technologies into teaching and learning programmes It is a significant reference book for those involved with teaching mathematics or using mobile technologies in education while also offering insights and examples that are applicable to the use of digital technologies in education generally Meaning in Mathematics Education Jeremy Kilpatrick, Celia Hoyles, Ole Skovsmose, 2006-03-30 What does it mean to know mathematics How does meaning in mathematics education connect to common sense or to the

meaning of mathematics itself How are meanings constructed and communicated and what are the dilemmas related to these processes There are many answers to these questions some of which might appear to be contradictory. Thus understanding the complexity of meaning in mathematics education is a matter of huge importance. There are twin directions in which discussions have developed theoretical and practical and this book seeks to move the debate forward along both dimensions while seeking to relate them where appropriate A discussion of meaning can start from a theoretical examination of mathematics and how mathematicians over time have made sense of their work However from a more practical perspective anybody involved in teaching mathematics is faced with the need to orchestrate the myriad of meanings derived from multiple sources that students develop of mathematical knowledge This book presents a wide variety of theoretical reflections and research results about meaning in mathematics and mathematics education based on long term and collective reflection by the group of authors as a whole It is the outcome of the work of the BACOMET BAsic COmponents of Mathematics Education for Teachers group who spent several years deliberating on this topic The ten chapters in this book both separately and together provide a substantial contribution to clarifying the complex issue of meaning in mathematics education This book is of interest to researchers in mathematics education graduate students of mathematics education under graduate students in mathematics secondary mathematics teachers and primary teachers with an interest in Humans-with-Media and the Reorganization of Mathematical Thinking Marcelo C. Borba, Monica E. mathematics Villarreal, 2005-03-22 This book offers a new conceptual framework for reflecting on the role of information and communication technology in mathematics education Discussion focuses on how computers writing and oral discourse transform education at an epistemological as well as a political level Building on examples research and theory the authors propose that knowledge is not constructed solely by humans but by collectives of humans and technologies of intelligence

Symbolizing, Modeling and Tool Use in Mathematics Education K.P Gravemeijer,R. Lehrer,H.J. van Oers,Lieven Verschaffel,2013-03-09 The almost universal rejection of the notion of symbols as carriers of meaning has created the need to find an alternative for the use of models as embodiments of mathematical concepts By taking its point of departure as a concern for the way students actually use tools and symbols and for what these signify for them this book explores the option of building on symbolizing modelling and tool use as personally meaningful activities of students This theme is approached from different angles and different perspectives One dimension is that of setting varying from the study of informal spontaneous activity of students to an explicit focus on instructional design and goals and effects of instruction Another dimension is the theoretical framework of the researcher varying from constructivism to activity theory cognitive psychology and instructional design theory This book will appeal to a wide audience varying from researchers instructional designers educators and graduate students Mobile Learning and Mathematics Helen Crompton, John Traxler, 2015-02-11 Mobile Learning and Mathematics provides an overview of current research on how mobile devices are supporting mathematics

educators in classrooms across the globe Through nine case studies chapter authors investigate the use of mobile technologies over a range of grade levels and mathematical topics while connecting chapters provide a strong foundational background in mobile learning theories instructional design and learner support For current educators Mobile Learning and Mathematics provides concrete ideas and strategies for integrating mobile learning into their mathematics instruction for example by sharing resources that will help implement Common Core State Standards or by streamlining the process of selecting from the competing and often confusing technology options currently available A cutting edge research volume this collection also provides a springboard for educational researchers to conduct further study **Mathematics Education** and Language Tony Brown, 2012-12-06 Contemporary thinking on philosophy and the social sciences has primarily focused on the centrality of language in understanding societies and individuals important developments which have been under utilised by researchers in mathematics education In this revised and extended edition this book reaches out to contemporary work in these broader fields adding new material on how progression in mathematical learning might be variously understood A new concluding chapter considers how teachers experience the new demands they face Learner Deryn M. Watson, Jane Andersen, 2013-11-11 Deryn Watson and Jane Andersen Editors INTRODUCTION The role of a Preface is to introduce the nature of the publication The book that emerges from an IFIP Technical Committee World Conference on Computers in Education is complex and this complexity lies in the nature of the event from which it emerges Unlike a number of other major international conferences those organised within the IFIP education community are active events A WCCE is unique among major international conferences for the structure that deliberately ensures that all attendees are active participants in the development of the debate In addition to the major paper presentations and discussion from international authors there are panel sessions and professional working groups who debate particular themes throughout the event There is no doubt that this was not a dry academic conference teachers lecturers and experts policy makers and researchers leamers and manufacturers mingled and worked together to explore reflect discuss and plan for the future The added value of this event was that we know that it will have an impact on future practice networks will be formed both virtual and real ideas will change and new ones will emerge Capturing the essence of this event is a challenge this post conference book has three parts The first is the substantial number of theme papers In Search of a Pedagogy of Conflict and Dialogue for Mathematics Education Renuka Vithal, 2003-09-30 This book 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 The book builds theoretical ideas from a careful substantial description of practice in the attempt to improve both theory and practice in mathematics education It thus interrogates and develops theoretical research tools for mathematics education and provides ideas for practice in mathematics classrooms A Design Approach to Research in Technology Enhanced Mathematics Education, 2010 A Thesis

Submitted for the Degree of Doctor of Philosophy Institute of Education University of London **Philosophical Dimensions in Mathematics Education** Karen Francois, Jean Paul Van Bendegem, 2007-11-15 This book brings together diverse recent developments exploring philosophy of mathematics in education The unique combination of ethnomathematics philosophy history education statistics and mathematics offers a variety of different perspectives from which existing boundaries in mathematics education can be extended The ten chapters in this book offer a balance between philosophy of and philosophy in mathematics education Attention is paid to the implementation of a philosophy of mathematics within the mathematics curriculum to become a philosophy in mathematics education In doing so many chapters provide ideas for actual practice and some practical examples directly usable in teacher training and in mathematics classrooms Didactical Challenge of Symbolic Calculators Dominique Guin, 2005 While computational technologies are transforming the professional practice of mathematics as yet they have had little impact on school mathematics. This pioneering text develops a theorized analysis of why this is and what can be done to address it It examines the particular case of symbolic calculators equipped with computer algebra systems in secondary education Drawing on a substantial program of French innovation and research as well as closely related studies from Australia and the Netherlands it provides rich illustrations of the many aspects of technology integration and of the ways in which these are shaped at different levels of the educational institution This text offers the first English language exposition of how an innovative synthesis of the theories of instrumentation and didactics can be used to illuminate the complexities of technology integration It offers important guidance for policy and practice through its analysis of the central role of the teacher and its identification of key principles for effective didactical design and management These distinctive features make this book essential reading for researchers teacher educators and graduate students in mathematics education and technology in education as well as for teachers of mathematics at upper secondary and university levels This is a revised English language edition of D Guin L Trouche Eds 2002 Calculatrices symboliques Transformer un outil en un instrument de travail math matique un probl me didactique Journal for Research in Mathematics Education, 2012 Editions La Pens e Sauvage Grenoble **Model-Centered** Learning Lingguo Bu, Robert Schoen, 2012-01-01 Model Centered Learning Pathways to Mathematical Understanding Using GeoGebra is the first book to report on the international use of GeoGebra and its growing impact on mathematics teaching and learning Supported by new developments in model centered learning and instruction the chapters in this book move beyond the traditional views of mathematics and mathematics teaching providing theoretical perspectives and examples of practice for enhancing students mathematical understanding through mathematical and didactical modeling Designed specifically for teaching mathematics GeoGebra integrates dynamic multiple representations in a conceptually rich learning environment that supports the exploration construction and evaluation of mathematical models and simulations The open source nature of GeoGebra has led to a growing international community of mathematicians teacher educators and classroom teachers who seek to tackle the challenges and complexity of mathematics education through a grassroots initiative using instructional innovations. The chapters cover six themes 1 the history philosophy and theory behind GeoGebra 2 dynamic models and simulations 3 problem solving and attitude change 4 GeoGebra as a cognitive and didactical tool 5 curricular challenges and initiatives 6 equity and sustainability in technology use This book should be of interest to mathematics educators mathematicians and graduate students in STEM education and instructional technologies

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