

MAKING SENSE OF
MATHEMATICS
FOR TEACHING

the Small Group

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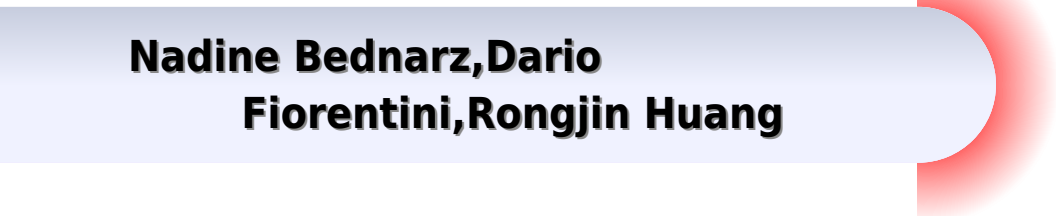


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Making Sense Of Mathematics Teacher Education

**Nadine Bednarz, Dario
Fiorentini, Rongjin Huang**



Making Sense Of Mathematics Teacher Education:

Making Sense of Mathematics Teacher Education Fou-Lai Lin, Thomas J. Cooney, 2011-06-28 This is a research based book on mathematics teacher education It is about the learning of prospective and inservice mathematics teachers mathematics educators and researchers The text is intended for a broad audience including teacher educators mathematics educators graduate students in mathematics education and mathematics teachers at all levels of schooling In offering an examination of teacher education programs from different societies and cultures this book provides an international perspective on mathematics teacher education Practical situations associated with related theories are studied critically throughout the chapters The possibilities and constraints of making an analogy between mathematics learning theories and mathematics teachers learning theories are argued and examined New perspectives on mathematics teacher education are presented along with relevant examples thus enhancing the book s readability for international readers BACKGROUND OF THE BOOK The book was inspired by the obvious need to address issues in mathematics teacher education In particular the following mission statement for the newly established Journal of Mathematics Teacher Education JMTE reflects the mission of this book as well The Journal of Mathematics Teacher Education is devoted to topics and issues involving the education of teachers of mathematics at all stages of their professional development JMTE will serve as a forum for research on teachers learning for considering institutional societal and cultural influences that impact the education of mathematics teachers and for creating models for teachers of mathematics Editorial JMTE 1 1 p

Making Sense of Mathematics for Teaching Grades K-2 Juli K. Dixon, Edward C. Nolan, 2016-04-11 Develop a deep understanding of mathematics This user friendly resource presents grades K 2 teachers with a logical progression of pedagogical actions classroom norms and collaborative teacher team efforts to increase their knowledge and improve mathematics instruction Explore strategies and techniques to effectively learn and teach significant mathematics concepts and provide all students with the precise accurate information they need to achieve academic success Clarify math essentials with figures and tables that facilitate understanding through visualization Benefits Dig deep into mathematical modeling and reasoning to improve as both a learner and teacher of mathematics Explore how to develop select and modify mathematics tasks in order to balance cognitive demand and engage students Discover the three important norms to uphold in all mathematics classrooms Learn to apply the tasks questioning and evidence TQE process to ensure mathematics instruction is focused coherent and rigorous Use charts and diagrams for classifying shapes which can engage students in important mathematical practices Access short videos that show what classrooms that are developing mathematical understanding should look like Contents Introduction 1 Number Concepts and Place Value 2 Word Problem Structures 3 Addition and Subtraction Using Counting Strategies 4 Addition and Subtraction Using Grouping Strategies 5 Geometry 6 Measurement Epilogue Next Steps Appendix A Completed Classification of Triangles Chart Appendix B Completed Diagram for Classifying Quadrilaterals

Making Sense of Mathematics for

Teaching Grades 6-8 Edward C. Nolan, Juli K. Dixon, 2016-04-13 Develop a deep understanding of mathematics This user friendly resource presents grades 6 8 teachers with a logical progression of pedagogical actions classroom norms and collaborative teacher team efforts to increase their knowledge and improve mathematics instruction Make connections between elementary fraction based content to fraction operations taught in the middle grades Explore strategies and techniques to effectively learn and teach significant mathematics concepts and provide all students with the precise accurate information they need to achieve academic success Benefits Dig deep into mathematical modeling and reasoning to improve as both a learner and teacher of mathematics Explore how to develop select and modify mathematics tasks in order to balance cognitive demand and engage students Discover the three important norms to uphold in all mathematics classrooms Learn to apply the tasks questioning and evidence TQE process to grow as both learners and teachers of mathematics Gain clarity about the most productive progression of mathematical teaching and learning for grades 6 8 Access short videos that show what classrooms that are developing mathematical understanding should look like Contents Introduction 1 Fraction Operations and Integer Concepts and Operations 2 Ratios and Proportional Relationships 3 Equations Expressions and Inequalities 4 Functions 5 Measurement and Geometry 6 Statistics and Probability Epilogue Next Steps References and Resources Index **Making Sense of Mathematics for Teaching, Grades 3-5** Juli K. Dixon, Edward C. Nolan, 2016-04-11

Develop a deep understanding of mathematics This user friendly resource presents grades 3 5 teachers with a logical progression of pedagogical actions classroom norms and collaborative teacher team efforts to increase their knowledge and improve mathematics instruction Focus on an understanding of and procedural fluency with multiplication and division Address how to learn and teach fraction concepts and operations with depth Thoroughly teach plane and solid geometry Explore strategies and techniques to effectively learn and teach significant mathematics concepts and provide all students with the precise accurate information they need to achieve academic success Benefits Dig deep into mathematical modeling and reasoning to improve as both a learner and teacher of mathematics Explore how to develop select and modify mathematics tasks in order to balance cognitive demand and engage students Discover the three important norms to uphold in all mathematics classrooms Learn to apply the tasks questioning and evidence TQE process to ensure mathematics instruction is focused coherent and rigorous Use charts and diagrams for classifying shapes which can engage students in important mathematical practices Access short videos that show what classrooms that are developing mathematical understanding should look like Contents Introduction 1 Place Value Addition and Subtraction 2 Multiplication and Division 3 Fraction Concepts 4 Fraction Operations 5 Geometry 6 Measurement Epilogue Next Steps Appendix A Completed Classification of Triangles Chart Appendix B Completed Diagram for Classifying Quadrilaterals **Making Sense of Mathematics for Teaching to Inform Instructional Quality** Melissa Boston, Amber G. Candela, Juli K. Dixon, 2019 In Making Sense of Mathematics for Teaching Reflecting on Instructional Quality authors Melissa D Boston Amber G Candela

and Juli K Dixon provide a compelling and illuminating process for focusing on and improving the quality of one's mathematics instruction. With an understanding of the importance of instructional quality to the teaching of mathematics, the authors have focused on building a process that places an emphasis on identifying and improving the aspects of instruction that will have the most impact on students learning in the mathematics classroom. Recognizing that theory must be supported by concrete evidence, the authors provide numerous strategies and rubrics to assist in implementation and to provide data that will assist in future lesson planning. Furthermore, in the previous books in the Making Sense of Mathematics series, a central premise has been that the reader will learn about the mathematics they are teaching and improve their teaching ability by actually doing the mathematics, and that is the case in this book. Readers will rely on the TQE process for guidance as they improve the quality of their instruction while building their own understanding and skill with mathematics by actually doing the math they will be teaching.

The Handbook of Mathematics Teacher Education: Volume 2, 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 2, Tools and Processes in Mathematics Teacher Education, focuses on the how of mathematics teacher education. In this volume, the authors share with the readers their invaluable experience in employing different tools in mathematics teacher education. This accumulated experience could assist teacher educators, researchers in mathematics education, and those involved in policy decisions on teacher education in making decisions about both the tools and the processes to be used for various purposes in mathematics teacher education. There are four sections. The first describes and discusses four successful ways of using cases in mathematics teacher education, including narratives, mathematics case discussions, video recordings, and lesson studies. The second presents predominant tools that are used in mathematics teacher education: two textual tools (written tasks and examples) and two physical tools (manipulatives and machines). The third section suggests ways in which the accumulated research on common students' ways of thinking contributes to the development of tools and processes in mathematics teacher education. The last section provides critical response and general perspective, raising questions such as: How can the teaching of mathematics be used as a tool to promote general educational values? What are the dimensions of proficient teaching? The concluding chapter offers a provisional framework consisting of a set of seven dimensions of proficiency for teaching mathematics. Together, the chapters provide various promising tools and processes for facilitating the acquisition of major proficiencies needed for teaching mathematics and principles that could guide the selection and use of such tools.

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.
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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

The AMTE Handbook of Mathematics Teacher Education Babette M. Benken, 2024-02-01 This new volume of The Association of Mathematics Teacher Educators AMTE Professional Book Series is a critical and timely resource that paves the way and guides the future of mathematics teacher education The collection of work in this AMTE Handbook of Mathematics Teacher Education reflects on research and what we know about how best to prepare and support both mathematics teachers and mathematics teacher educators and presents what is happening in the field Examples included in the 22 chapters highlight how we are preparing teachers across multiple contexts e g within district in content courses for the major and grade ranges K 20 and all chapters highlight relevant connections to the AMTE Standards for Preparing Teachers of Mathematics Most importantly this volume explores what we do not yet fully understand and where we are going In essence it considers how we can move the field forward The 95 contributing authors range from graduate students to those who have served as leaders in the field in multiple ways for many years Authors include K 12 teachers school administrators district leaders graduate students higher education faculty and professional development facilitators

The Learning and Development of Mathematics Teacher Educators Merrilyn Goos, Kim Beswick, 2021-04-07 Research in mathematics teacher education as a distinctive field of inquiry has grown substantially over the past 10 15 years Within this field there is emerging interest in how mathematics teacher educators MTEs themselves learn and develop Until recently there were few published studies on this topic and the processes by which mathematics teacher educators learn and the forms of knowledge they require for effective practice had not been systematically investigated However researchers in mathematics education are now beginning to investigate the development of MTE expertise and associated issues This volume draws on the latest research and thinking in this area is therefore timely to stimulate future development and directions It will survey the emerging field of inquiry in mathematics education combining the work of established scholars with perspectives of newcomers to the field with the aim of influencing development of the field invite cross cultural comparisons in becoming a mathematics teacher educator by highlighting issues in the development of MTEs in different countries and examine the roles of both mathematics educators and mathematicians in preparing future teachers of mathematics The primary audience will be university based mathematics teacher educators and MTE researchers and postgraduate research students who are seeking academic careers as MTEs Additional interest may come from teacher

educators in disciplines other than mathematics and education policy makers responsible for accreditation and quality control of initial teacher education programs

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 synthesises 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

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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

The Handbook of Mathematics Teacher Education: Volume 3 ,2008-01-01 This 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 3 Participants in Mathematics

Teacher Education Individuals Teams Communities and Networks addresses the who question of mathematics teacher education The authors focus on the various kinds of participants in mathematics teacher education professional development and reform initiatives The chapters deal with prospective and practising teachers as well as with teacher educators as learners and with schools districts and nations as learning systems

Tasks in Primary Mathematics Teacher

Education Barbara Clarke,Barbro Grevholm,Richard Millman,2008-10-25 Tasks in Primary Mathematics Teacher Education is intended to advance relevant research and innovative international practices in the preparation and professional development of mathematics teachers Emerging from discussion at the ICMI study on teacher professional development this volume focused on primary and elementary teachers culls a richness that can only be found by gathering wisdom from varied experiences around the world The choice of tasks and the associated pedagogies is a key aspect of teaching and learning mathematics Arguing that what students learn is largely defined by the tasks they are given several major themes are presented One such major strand the form function and focus of tasks is discussed throughout several chapters offering analysis discussion of implementation and exemplars of a broader category of illustrative techniques for developing critical understanding

The Teaching and Learning of Mathematics at University Level Derek Holton,2006-04-11 This book is the final report of the ICMI study on the Teaching and Learning of Mathematics at University Level As such it is one of a number of such studies that ICMI has commissioned The other Study Volumes cover assessment in mathematics education gender equity research in mathematics education the teaching of geometry and history in mathematics education All of these Study Volumes represent a statement of the state of the art in their respective areas We hope that this is also the case for the current Study Volume The current study on university level mathematics was commissioned for essentially four reasons First universities world wide are accepting a much larger and more diverse group of students than has been the case Consequently universities have begun to adopt a role more like that of the school system and less like the elite institutions of the past As a result the educational and pedagogical issues facing universities have changed Second although university student numbers have increased significantly there has not been a corresponding increase in the number of mathematics majors Hence mathematics departments have to be more aware of their students needs in order to retain the students they have and to attract future students As part of this awareness departments of mathematics have to take the teaching and learning of mathematics more seriously than perhaps they have in the past

International Handbook of Mathematics

Teacher Education: Volume 2 ,2019-12-16 This second edition of the International Handbook of Mathematics Teacher Education builds on and extends the topics ideas in the first edition while maintaining the themes for each of the volumes Collectively the authors look back beyond and within the last 10 years to establish the state of the art and continuing and new trends in mathematics teacher and mathematics teacher educator education and look forward regarding possible avenues for teachers teacher educators researchers and policy makers to consider to enhance and or further investigate

mathematics teacher and teacher educator learning and practice in particular The volume editors provide introductions to each volume that highlight the subthemes used to group related chapters which offer meaningful lenses to see important connections within and across chapters Readers can also use these subthemes to make connections across the four volumes which although presented separately include topics that have relevance across them since they are all situated in the common focus regarding mathematics teachers Volume 2 Tools and Processes in Mathematics Teacher Education describes and analyze various promising tools and processes from different perspectives aimed at facilitating the mathematics teacher learning and development It provides insights of how mathematics teacher educators think about and approach their work with teachers Thus as the second volume in the series it broadens our understanding of the mathematics teacher and their learning and teaching

International Handbook of Mathematics Teacher Education: Volume 1, 2019-12-02 This second edition of the International Handbook of Mathematics Teacher Education builds on and extends the topics ideas in the first edition while maintaining the themes for each of the volumes Collectively the authors looked back beyond and within the last 10 years to establish the state of the art and continuing and new trends in mathematics teacher and mathematics teacher educator education and looked forward regarding possible avenues for teachers teacher educators researchers and policy makers to consider to enhance and or further investigate mathematics teacher and teacher educator learning and practice in particular The volume editors provide introductions to each volume that highlight the subthemes used to group related chapters which offer meaningful lenses to see important connections within and across chapters Readers can also use these subthemes to make connections across the four volumes which although presented separately include topics that have relevance across them since they are all situated in the common focus regarding mathematics teachers Volume 1 Knowledge Beliefs and Identity in Mathematics Teaching and Teaching Development edited by Despina Potari and Olive Chapman examines teacher knowledge beliefs identity practice and relationships among them These important aspects of mathematics teacher education continue to be the focus of extensive research and policy debate globally Thus as the first volume in the series it appropriately addresses central topics issues that provide an excellent beginning to engage in the field of mathematics education through the handbook Contributors are Jill Adler Mike Askew Maria Bartolini Bussi Anne Bennison Kim Beswick Olive Chapman Charalambos Charalambus Helen Chick Marta Civil Sandra Crespo Sean Delaney Silvia Funghi Merrilyn Goos Roberta Hunter Barbara Jaworski Kim Koh Esther S Levenson Yeping Li Niamh O Meara JoengSuk Pang Randolph Phillipp Despina Potari Craig Pournara Stephen Quirke Alessandro Ramploud Tim Rowland John Zig Siegfried Naiqing Song Konstantinos Stouraitis Eva Thanheiser Collen Vale Hamsa Venkat and Huirong Zhang

Making Sense James Hiebert, 1997 This book presents several key principles for teaching mathematics for understanding that you can use to reflect on your own teaching make more informed decisions and develop more effective systems of instruction

Making Sense of Mathematics for Teaching High School Edward C. Nolan, Juli K. Dixon, Farhsid Safi, Erhan Selcuk

Haciomeroglu,2016-05-19 Develop a deep understanding of mathematics by grasping the context and purpose behind various strategies This user friendly resource presents high school teachers with a logical progression of pedagogical actions classroom norms and collaborative teacher team efforts to increase their knowledge and improve mathematics instruction Explore strategies and techniques to effectively learn and teach significant mathematics concepts and provide all students with the precise accurate information they need to achieve academic success Combine student understanding of functions and algebraic concepts so that they can better decipher the world Benefits Dig deep into mathematical modeling and reasoning to improve as both a learner and teacher of mathematics Explore how to develop select or modify mathematics tasks in order to balance cognitive demand and engage students Discover the three important norms to uphold in all mathematics classrooms Learn to apply the tasks questioning and evidence TQE process to ensure mathematics instruction is focused coherent and rigorous Gain clarity about the most productive progression of mathematical teaching and learning for high school Watch short videos that show what classrooms that are developing mathematical understanding should look like Contents Introduction Equations and Functions Structure of Equations Geometry Types of Functions Function Modeling Statistics and Probability Epilogue Next Steps Appendix Weight Loss Study Data References Index [Transforming Mathematics Teacher Education](#) Tonya Gau Bartell,Corey Drake,Amy Roth McDuffie,Julia M. Aguirre,Erin E. Turner,Mary Q. Foote,2019-08-01 This book builds on the Teachers Empowered to Advance Change in Mathematics TEACH Math project which was an initiative that sought to develop a new generation of preK 8 mathematics teachers to connect mathematics children s mathematical thinking and community and family knowledge in mathematics instruction or what we have come to call children s multiple mathematical knowledge bases in mathematics instruction with an explicit focus on equity Much of the work involved in the TEACH Math project included the development of three instructional modules for preK 8 mathematics methods courses to support the project s goals These activities were used and refined over eight semesters and in Fall 2014 shared at a dissemination conference with other mathematics teacher educators from a variety of universities across the United States Chapter contributions represent diverse program and geographical contexts and teach prospective and practicing teachers from a variety of socioeconomic and ethnic backgrounds in particular providing accounts of supports challenges and tensions in implementing equity based mathematics teacher education The chapters supply rich evidence and illustrative examples of how other mathematics teacher educators and professional developers might make the modules work for their unique practices courses workshops and prospective teachers teachers It promises to be an important resource for offering guidance and examples to those working with prospective teachers of mathematics who want to create positive culturally responsive and equity based mathematics experiences for our nation s youth **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

International Approaches to Professional Development for Mathematics Teachers Nadine Bednarz,Dario Fiorentini,Rongjin Huang,2011-08-06

Explorations of innovative approaches to the professional development of math teachers from around the world Schools everywhere are being confronted with evolving learning and teaching paradigms that call into question a number of traditional math teaching techniques These changes demand serious reflection on how to support frontline educators in developing their teaching skills Alternative approaches to professional development have been established worldwide that support teacher education and contribute to professional development that is informed by practice created for practice and refined in practice This volume provides a rich portrait of these emergent strategies in the professional development of math teachers bridging the divide between theory and practice Written by researchers around the world the contributions examine innovative approaches to the professional development of math teachers in different countries Many of these approaches take into account the practitioner s point of view and are fundamentally rooted in the context of the classroom Schools everywhere are being confronted with evolving learning and teaching paradigms that call into question a number of traditional math teaching techniques These changes demand serious reflection on how to support frontline educators in developing their teaching skills Alternative approaches to professional development have been established worldwide that support teacher education and contribute to professional development that is informed by practice created for practice and refined in practice This volume provides a rich portrait of these emergent strategies in the professional development of math teachers bridging the divide between theory and practice Written by researchers around the world the contributions examine innovative approaches to the professional development of math teachers in different countries Many of these approaches

take into account the practitioner's point of view and are fundamentally rooted in the context of the classroom. Published in English. **From beliefs to dynamic affect systems in mathematics education** Birgit Pepin, Bettina Roesken-Winter, 2014-10-21. This book connects seminal work in affect research and moves forward to provide a developing perspective on affect as the decisive variable of the mathematics classroom. In particular, the book contributes and investigates new conceptual frameworks and new methodological tools in affect research and introduces the new field of collectives to explore affect systems in diverse settings. Investigated by internationally renowned scholars, the book is built up in three dimensions. The first part of the book provides an overview of selected theoretical frames, theoretical lenses to study the mosaic of relationships and interactions in the field of affect. In the second part, the theory is enriched by empirical research studies and provides relevant findings in terms of developing deeper understandings of individuals and collectives' affective systems in mathematics education. Here, pupil and teacher beliefs and affect systems are examined more closely. The final part investigates the methodological tools used and needed in affect research. How can the different methodological designs contribute data which help us to develop better understandings of teachers and pupils' affect systems for teaching and learning mathematics and in which ways are knowledge and affect related?

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