

Edward A. Silver, *Editor*

Teaching and Learning Mathematical Problem Solving:

**Multiple Research
Perspectives**



Teaching And Learning Mathematical Problem Solving Multiple Research Perspectives

**Carola Bernack-Schüler, Ralf
Erens, Timo Leuders, Andreas Eichler**



Teaching And Learning Mathematical Problem Solving Multiple Research Perspectives:

Teaching and Learning Mathematical Problem Solving Edward A. Silver, 2013-04-03 A provocative collection of papers containing comprehensive reviews of previous research teaching techniques and pointers for direction of future study Provides both a comprehensive assessment of the latest research on mathematical problem solving with special emphasis on its teaching and an attempt to increase communication across the active disciplines in this area **Teaching and Learning Mathematical Problem Solving** ,1985 Proceedings of a conference held June 1983 at San Diego State University **The Teaching and Assessing of Mathematical Problem Solving** National Council of Teachers of Mathematics, 1988

Mathematical Problem Solving Peter Liljedahl, Manuel Santos-Trigo, 2019-02-12 This book contributes to the field of mathematical problem solving by exploring current themes trends and research perspectives It does so by addressing five broad and related dimensions problem solving heuristics problem solving and technology inquiry and problem posing in mathematics education assessment of and through problem solving and the problem solving environment Mathematical problem solving has long been recognized as an important aspect of mathematics teaching mathematics and learning mathematics It has influenced mathematics curricula around the world with calls for the teaching of problem solving as well as the teaching of mathematics through problem solving And as such it has been of interest to mathematics education researchers for as long as the field has existed Research in this area has generally aimed at understanding and relating the processes involved in solving problems to students development of mathematical knowledge and problem solving skills The accumulated knowledge and field developments have included conceptual frameworks for characterizing learners success in problem solving activities cognitive metacognitive social and affective analysis curriculum proposals and ways to promote problem solving approaches **Mathematical Problem Solving and New Information Technologies** Joao P. Ponte, Joao F. Matos, Jose M. Matos, Domingos Fernandes, 2013-06-29 A strong and fluent competency in mathematics is a necessary condition for scientific technological and economic progress However it is widely recognized that problem solving reasoning and thinking processes are critical areas in which students performance lags far behind what should be expected and desired Mathematics is indeed an important subject but is also important to be able to use it in extra mathematical contexts Thinking strictly in terms of mathematics or thinking in terms of its relations with the real world involve quite different processes and issues This book includes the revised papers presented at the NATO ARW Information Technology and Mathematical Problem Solving Research held in April 1991 in Viana do Castelo Portugal which focused on the implications of computerized learning environments and cognitive psychology research for these mathematical activities In recent years several committees professional associations and distinguished individuals throughout the world have put forward proposals to renew mathematics curricula all emphasizing the importance of problem solving In order to be successful these reforming intentions require a theory driven research base But mathematics problem solving may be considered a chaotic field in which

progress has been quite slow **Handbook of Research on Mathematics Teaching and Learning** Douglas Grouws, 2006-11-01 Sponsored by the National Council of Teachers of Mathematics and written by leading experts in the field of mathematics education the Handbook is specifically designed to make important vital scholarship accessible to mathematics education professors graduate students educational researchers staff development directors curriculum supervisors and teachers The Handbook provides a framework for understanding the evolution of the mathematics education research field against the backdrop of well established conceptual historical theoretical and methodological perspectives It is an indispensable working tool for everyone interested in pursuing research in mathematics education as the references for each of the Handbook's twenty nine chapters are complete resources for both current and past work in that particular area

Second Handbook of Research on Mathematics Teaching and Learning Frank K. Lester, 2007-02-01 The audience remains much the same as for the 1992 Handbook namely mathematics education researchers and other scholars conducting work in mathematics education This group includes college and university faculty graduate students investigators in research and development centers and staff members at federal state and local agencies that conduct and use research within the discipline of mathematics The intent of the authors of this volume is to provide useful perspectives as well as pertinent information for conducting investigations that are informed by previous work The Handbook should also be a useful textbook for graduate research seminars In addition to the audience mentioned above the present Handbook contains chapters that should be relevant to four other groups teacher educators curriculum developers state and national policy makers and test developers and others involved with assessment Taken as a whole the chapters reflect the mathematics education research community's willingness to accept the challenge of helping the public understand what mathematics education research is all about and what the relevance of their research findings might be for those outside their immediate community Russian Mathematics Education Alexander Karp, Bruce Ramon Vogeli, 2010 Volume I entitled Russian Mathematics Education History and World Significance consists of several chapters written by distinguished authorities from Russia the United States and other nations It examines the history of mathematics education in Russia and its relevance to mathematics education throughout the world The second volume entitled Russian Mathematics education is highly respected for its achievements and was once very influential internationally it has never been explored in depth This publication does just that Book Jacket

Cognitive Science and Mathematics Education Alan H. Schoenfeld, 2013-04-03 This volume is a result of mathematicians cognitive scientists mathematics educators and classroom teachers combining their efforts to help address issues of importance to classroom instruction in mathematics In so doing the contributors provide a general introduction to fundamental ideas in cognitive science plus an overview of cognitive theory and its direct implications for mathematics education A practical no nonsense attempt to bring recent research within reach for practicing teachers this book also raises many issues for cognitive researchers to consider **Transforming Children's Mathematics Education** Leslie P.

Steffe, Terry Wood, 2013-11-05 Eminent scholars from around the globe gathered to discuss how educational systems would change if the prevailing principles of constructivism were applied to three major aspects of those systems knowledge and learning communication and environment This volume provides documentation of the proceedings of this important meeting the Early Childhood Action Group of the Sixth International Congress on Mathematics Education This international assembly representing such diverse disciplines as mathematics and math education epistemology philosophy cognitive science psycholinguistics and science education is the first to examine early childhood mathematics education from constructivist and international perspectives in addition to formulating recommendations for future work in the field **Views and**

Beliefs in Mathematics Education Carola Bernack-Schüler, Ralf Erens, Timo Leuders, Andreas Eichler, 2015-05-05

International mathematics education researchers give a differentiated overview of views and beliefs of both teachers and students Beliefs about how to teach mathematics have a high impact on the instructional practice of teachers In the same way views and beliefs about mathematics are an essential factor to explain achievement and performance of students The 19th MAVI conference added a variety of research perspectives to the international discussions of mathematics related beliefs The authors of this volume have compiled a rich selection of research results which may further enhance the discussion of MAVI topics in the future **Science Education Issues and Developments** Calvin L. Petroselli, 2008 Science

Education Issues and Developments **Research in Collegiate Mathematics Education III** James J. Kaput, Ed Dubinsky, Alan H. Schoenfeld, Thomas P. Dick, 1998 Volume 3 of Research in Collegiate Mathematics Education RCME presents state of the art research on understanding teaching and learning mathematics at the post secondary level This volume contains information on methodology and research concentrating on these areas of student learning Problem Solving Understanding Concepts and Understanding Proofs Mathematics Education Lyn D. English, Graeme S.

Halford, 2012-12-06 To define better techniques of mathematics education this book combines a knowledge of cognitive science with mathematics curriculum theory and research The concept of the human reasoning process has been changed fundamentally by cognitive science in the last two decades The role of memory retrieval domain specific and domain general skills analogy and mental models is better understood now than previously The authors believe that cognitive science provides the most accurate account thus far of the actual processes that people use in mathematics and offers the best potential for genuine increases in efficiency As such they suggest that a cognitive science approach enables constructivist ideas to be analyzed and further developed in the search for greater understanding of children's mathematical learning Not simply an application of cognitive science however this book provides a new perspective on mathematics education by examining the nature of mathematical concepts and processes how and why they are taught why certain approaches appear more effective than others and how children might be assisted to become more mathematically powerful The authors use recent theories of analogy and knowledge representation combined with research on teaching practice to find ways of

helping children form links and correspondences between different concepts so as to overcome problems associated with fragmented knowledge. In so doing they have capitalized on new insights into the values and limitations of using concrete teaching aids which can be analyzed in terms of analogy theory. In addition to addressing the role of understanding the authors have analyzed skill acquisition models in terms of their implications for the development of mathematical competence. They place strong emphasis on the development of students' mathematical reasoning and problem solving skills to promote flexible use of knowledge. The book further demonstrates how children have a number of general problem solving skills at their disposal which they can apply independently to the solution of novel problems resulting in the enhancement of their mathematical knowledge.

Piaget's Genetic Epistemology for Mathematics Education Research Paul Christian Dawkins, Amy J. Hackenberg, Anderson Norton, 2024-01-02. The book provides an entry point for graduate students and other scholars interested in using the constructs of Piaget's genetic epistemology in mathematics education research. Constructs comprising genetic epistemology form the basis for some of the most well developed theoretical frameworks available for characterizing learning particularly in mathematics. The depth and complexity of Piaget's work can make it challenging to find adequate entry points for learners not least because it requires a reorientation regarding the nature of mathematical knowledge itself. This volume gathers leading scholars to help address that challenge. The main section of the book presents key Piagetian constructs for mathematics education research such as schemes and operations, figurative and operative thought, images and meanings, and decentering. The chapters that discuss these constructs include examples from research and address how these constructs can be used in research. There are two chapters on various types of reflective abstraction because this construct is Piaget's primary tool for characterizing the advancement of knowledge. The later sections of the book contain commentaries reflecting on the contributions of the body of theory developed in the first section. They connect genetic epistemology to current research domains such as equity and the latest in educational psychology. Finally, the book closes with short chapters portraying how scholars are using these tools in specific arenas of mathematics education research including in special education, early childhood education, and statistics education.

Symbolizing, Modeling and Tool Use in Mathematics Education K.P. Gravemeijer, 2002-12-31. This book explores the option of building on symbolizing, modeling, and tool use as personally meaningful activities of students. It discusses the dimension 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, and the dimension of the theoretical framework of the researcher varying from constructivism to activity theory, cognitive psychology, and instructional design theory.

Research in Collegiate Mathematics Education Ed Dubinsky, Alan H. Schoenfeld, James J. Kaput, 1994. The field of research in collegiate mathematics education has grown rapidly over the past twenty five years. Many people are convinced that improvement in mathematics education can only come with a greater understanding of what is involved when a student tries to learn mathematics and how pedagogy can be

more directly related to the learning process Today there is a substantial body of work and a growing group of researchers addressing both basic and applied issues of mathematics education at the collegiate level This volume is testimony to the growth of the field The intention is to publish volumes on this topic annually doing more or less as the level of growth dictates The introductory articles survey papers and current research that appear in this first issue convey some aspects of the state of the art The book is aimed at researchers in collegiate mathematics education and teachers of college level mathematics courses who may find ideas and results that are useful to them in their practice of teaching as well as the wider community of scholars interested in the intellectual issues raised by the problem of learning mathematics

Foundations for the Future in Mathematics Education Richard A. Lesh, Eric Hamilton, James J. Kaput, 2020-10-07 The central question addressed in Foundations for the Future in Mathematics Education is this What kind of understandings and abilities should be emphasized to decrease mismatches between the narrow band of mathematical understandings and abilities that are emphasized in mathematics classrooms and tests and those that are needed for success beyond school in the 21st century This is an urgent question In fields ranging from aeronautical engineering to agriculture and from biotechnologies to business administration outside advisors to future oriented university programs increasingly emphasize the fact that beyond school the nature of problem solving activities has changed dramatically during the past twenty years as powerful tools for computation conceptualization and communication have led to fundamental changes in the levels and types of mathematical understandings and abilities that are needed for success in such fields For K 12 students and teachers questions about the changing nature of mathematics and mathematical thinking beyond school might be rephrased to ask If the goal is to create a mathematics curriculum that will be adequate to prepare students for informed citizenship as well as preparing them for career opportunities in learning organizations in knowledge economies in an age of increasing globalization how should traditional conceptions of the 3Rs be extended or reconceived Overall this book suggests that it is not enough to simply make incremental changes in the existing curriculum whose traditions developed out of the needs of industrial societies The authors beyond simply stating conclusions from their research use results from it to describe promising directions for a research agenda related to this question The volume is organized in three sections Part I focuses on naturalistic observations aimed at clarifying what kind of mathematical thinking people really do when they are engaged in real life problem solving or decision making situations beyond school Part II shifts attention toward changes that have occurred in kinds of elementary but powerful mathematical concepts topics and tools that have evolved recently and that could replace past notions of basics by providing new foundations for the future This section also initiates discussions about what it means to understand the preceding ideas and abilities Part III extends these discussions about meaning and understanding and emphasizes teaching experiments aimed at investigating how instructional activities can be designed to facilitate the development of the preceding ideas and abilities Foundations for the Future in Mathematics Education is an essential reference for researchers

curriculum developers assessment experts and teacher educators across the fields of mathematics and science education

Mathematics & Mathematics Education: Searching for Common Ground Michael N. Fried, Tommy

Dreyfus, 2013-11-29 This book is the fruit of a symposium in honor of Ted Eisenberg concerning the growing divide between the mathematics community and the mathematics education community a divide that is clearly unhealthy for both The work confronts this disturbing gap by considering the nature of the relationship between mathematics education and mathematics and by examining areas of commonality as well as disagreement It seeks to provide insight into the mutual benefit both stand to gain by building bridges based on the natural bonds between them *The Heuristic View* Emiliano Ippoliti, Fabio

Sterpetti, 2025-10-01 This volume offers a series of thought provoking analyses that explore non mainstream perspectives on knowledge acquisition and scientific discovery A central theme across many of the contributions is the heuristic conception of method a view that finds its philosophical roots in Imre Lakatos's work in the philosophy of mathematics and more distantly in Platonic notions of philosophical inquiry Knowledge acquisition is frequently conceptualized as a form of problem solving and problem solving is typically regarded as a rational endeavor However the dominant view in the philosophy of science has long held that scientific discovery resists systematic explanation in terms of logic and rationality If an alternative account of discovery grounded in these terms can be developed it would represent a significant theoretical advancement The essays collected in this book critically assess the promise and limitations of such non standard accounts and they investigate the possibility of framing scientific discovery within a logical and rational framework This volume will be of particular interest to scholars in the philosophy of science epistemology philosophy of mathematics and philosophy of logic as well as to scientists engaged in theoretical inquiry and graduate students working in these or related areas

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