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KEY=VISION - PERKINS JORDYN

Secondary One Mathematics

Ready, Set, Go Answer Keys and Sample Assessments

Teaching and Learning in Maths Classrooms

Emerging Themes in Affect-related Research: Teachers' Beliefs, Students' Engagement and Social Interaction

Springer *The book presents a selection of the most relevant talks given at the 21st MAVI conference, held at the Politecnico di Milano. The first section is dedicated to classroom practices and beliefs regarding those practices, taking a look at prospective or practicing teachers' views of different practices such as decision-making, the roles of explanations, problem-solving, patterning, and the use of play. Of major interest to MAVI participants is the relationship between teachers' professed beliefs and classroom practice, aspects that provide the focus of the second section. Three papers deal with teacher change, which is notoriously difficult, even when the teachers themselves are interested in changing their practice. In turn, the book's third section centers on the undercurrents of teaching and learning mathematics, which can surface in various situations, causing tensions and inconsistencies. The last section of this book takes a look at emerging themes in affect-related research, with a particular focus on attitudes towards assessment. The book offers a valuable resource for all teachers and researchers working in this area.*

Leaders in Mathematics Education: Experience and Vision

Springer *This book consists of interviews with the most important mathematics educators of our time. These interviews were originally published in the International Journal for the History of Mathematics Education and are now being offered to a wider readership for the first time, collected in a single volume. Among the individuals interviewed are scholars from Brazil, France, Germany, Russia, the United Kingdom, and the United States who have made a significant impact on the development of mathematics education in their countries and internationally. The interviews cover their biographies, including their memories of their own studies in mathematics and their intellectual formation, their experience as researchers and teachers, and their visions of the history and future development of mathematics education. The book will be of interest to anyone involved in research in mathematics education, and anyone interested in the history of mathematics education.*

Resources in Education

Financial Numeracy in Mathematics Education

Research and Practice

Springer Nature *This book presents the important role of mathematics in the teaching of financial education. Through a conceptualization of financial numeracy as a social practice, it focuses on the teaching practices, resources, and needs of secondary mathematics teachers (grades 7-12) to incorporate financial concepts in their classes. The editors and authors bring forth a novel perspective regarding mathematics education in the digital era. By focusing on financial numeracy, a key component of skills required in the digital era, they discuss important issues related to the teaching and learning of mathematics and finance. In contrary to most research in the field of financial education coming from scholars in areas such as business, accounting, management and economics,*

this book introduces the contribution of researchers from the field of education to the debate. The book appeals to an international audience composed of researchers, stakeholders, policymakers, teachers, and teacher educators.

Guiding Children's Learning of Mathematics

Cengage Learning *This thorough and practical guide to teaching mathematics for grades K-6 is a perfect combination of a math methods text and resource book for pre-service and in-service elementary school teachers. The text's organization uses the Common Core State Standards as its overarching framework. Over 275 lesson activities reinforce the standards and include many examples of cooperative learning strategies, take-home activities, and activities using technology such as apps. Content chapters first develop a math topic, and then extend the same topic, providing foundational material that can be used throughout the elementary grades. Other useful features highlight misconceptions often held about math operations and concepts, ways to be inclusive of various cultural backgrounds, and key technology resources. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.*

Educational Interfaces between Mathematics and Industry

Report on an ICMI-ICIAM-Study

Springer Science & Business Media *This book is the "Study Book" of ICMI-Study no. 20, which was run in cooperation with the International Congress on Industry and Applied Mathematics (ICIAM). The editors were the co-chairs of the study (Damlamian, Straesser) and the organiser of the Study Conference (Rodrigues). The text contains a comprehensive report on the findings of the Study Conference, original plenary presentations of the Study Conference, reports on the Working Groups and selected papers from all over world. This content was selected by the editors as especially pertinent to the study each individual chapter represents a significant contribution to current research.*

Approaches to Qualitative Research in Mathematics Education

Examples of Methodology and Methods

Springer *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 state 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.*

Computers Helping People with Special Needs

17th International Conference, ICCHP 2020, Lecco, Italy, September 9–11, 2020, Proceedings, Part I

Springer Nature *The two-volume set LNCS 12376 and 12377 constitutes the refereed proceedings of the 17th International Conference on Computers Helping People with Special Needs, ICCHP 2020, held in Lecco, Italy, in September 2020. The conference was held virtually due to the COVID-19 pandemic. The 104 papers presented were carefully reviewed and selected from 206 submissions. Included also are 13 introductions. The papers are organized in the following topical sections: Part I: user centred design and user participation in inclusive R&D; artificial intelligence, accessible and assistive technologies; XR accessibility – learning from the past, addressing real user needs and the technical architecture for inclusive immersive environments; serious and fun games; large-scale web accessibility observatories; accessible and inclusive digital publishing; AT and accessibility for blind and low vision users; Art Karshmer lectures in access to mathematics, science and engineering; tactile graphics and models for blind people and recognition of shapes by touch; and environmental sensing technologies for visual impairment Part II: accessibility of non-verbal communication: making spatial information accessible to people with disabilities; cognitive disabilities and accessibility – pushing the boundaries of inclusion using digital technologies and accessible eLearning environments; ICT to support inclusive education – universal learning design (ULD); hearing systems and accessories for people with hearing loss; mobile health and mobile rehabilitation for people with disabilities: current state, challenges and opportunities; innovation and implementation in the area of independent mobility through digital technologies; how to improve interaction with a text input system; human movement analysis for the design*

and evaluation of interactive systems and assistive devices; and service and care provision in assistive environments 10 chapters are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Doing the Scholarship of Teaching and Learning in Mathematics

The Mathematical Association of America *The Scholarship of Teaching and Learning (SoTL) movement encourages faculty to view teaching “problems” as invitations to conduct scholarly investigations. In this growing field of inquiry faculty bring their disciplinary knowledge and teaching experience to bear on questions of teaching and learning. They systematically gather evidence to develop and support their conclusions. The results are to be peer reviewed and made public for others to build on. This Notes volume is written expressly for collegiate mathematics faculty who want to know more about conducting scholarly investigations into their teaching and their students’ learning. Envisioned and edited by two mathematics faculty, the volume serves as a how-to guide for doing SoTL in mathematics.*

The Sensory Processing Disorder Answer Book

Practical Answers to the Top 250 Questions Parents Ask

Sourcebooks, Inc. *Q&A Is there medication for sensory processing disorder? How can occupational therapy help? What advice can I give my child's teacher? Can you "outgrow" sensory processing disorder? How can we make social situations less of an ordeal? What are some therapeutic activities I can do with my child? It is estimated that more than 10 percent of children deal with some form of sensory processing disorder (SPD), a neurological disorder characterized by the misinterpretation of everyday sensory information, such as touch, sound, and movement. For many children, SPD can lead to academic struggles, behavioral problems, difficulties with coordination, and other issues. The Sensory Processing Disorder Answer Book is a reassuring, authoritative reference, providing sound advice and immediate answers to your most pressing questions about SPD, such as: What is sensory processing? Does SPD affect social skills? Can you see sensory processing difficulties in an infant? What is Sensory Integration Therapy? Is SPD a sign of autism? Are there tests for SPD? How do I get a prescription for occupational therapy? How do I teach my child to understand his sensory needs? Written in an easy-to-read question and answer format, The Sensory Processing Disorder Answer Book helps you fully understand SPD, conquer your fears, and seek help for your child when necessary.*

New Directions for Equity in Mathematics Education

Cambridge University Press *This book examines equity from the standpoint of mathematics education - an excellent forum for the topic, since the results are quantifiable and the disparity in performance is stark.*

The SimCalc Vision and Contributions

Democratizing Access to Important Mathematics

Springer Science & Business Media *This volume provides essential guidance for transforming mathematics learning in schools through the use of innovative technology, pedagogy, and curriculum. It presents clear, rigorous evidence of the impact technology can have in improving students learning of important yet complex mathematical concepts -- and goes beyond a focus on technology alone to clearly explain how teacher professional development, pedagogy, curriculum, and student participation and identity each play an essential role in transforming mathematics classrooms with technology. Further, evidence of effectiveness is complemented by insightful case studies of how key factors lead to enhancing learning, including the contributions of design research, classroom discourse, and meaningful assessment. The volume organizes over 15 years of sustained research by multiple investigators in different states and countries who together developed an approach called "SimCalc" that radically transforms how Algebra and Calculus are taught. The SimCalc program engages students around simulated motions, such as races on a soccer field, and builds understanding using visual representations such as graphs, and familiar representations such as stories to help students to develop meaning for more abstract mathematical symbols. Further, the SimCalc program leverages classroom wireless networks to increase participation by all students in doing, talking about, and reflecting on mathematics. Unlike many technology programs, SimCalc research shows the benefits of balanced attention to curriculum, pedagogy, teacher professional development, assessment and technology -- and has proven effectiveness results at the scale of hundreds of schools and classrooms. Combining the findings of multiple investigators in one accessible volume reveals the depth and breadth of the research program, and engages readers interested in:*

- * Engaging students in deeply learning the important concepts in mathematics
- * Designing innovative curriculum, software, and professional development
- Effective uses of technology to improve mathematics education
- * Creating integrated systems of teaching that transform mathematics classrooms
- * Scaling up new pedagogies to hundreds of schools and classrooms
- * Conducting research that really matters for the future of mathematics learning
- * Engaging students in deeply learning the important concepts in mathematics
- * Designing innovative curriculum, software, and professional development
- Effective uses of technology to improve mathematics education
- * Creating integrated systems of teaching that transform mathematics classrooms
- * Scaling up new pedagogies to hundreds of schools and classrooms
- * Conducting research that really matters for the future of mathematics learning

Proposals for Research

Lulu.com My career has usually been funded by grants. Here are some of the proposals I wrote at the University of Colorado and at Drexel University. Successful grant proposals are tricky to write. The ones reproduced here might provide helpful examples. They may also provide explicit statements of some of the goals of my research over the years.

Helping Children Learn Mathematics

John Wiley & Sons Includes bibliographical references (pages 395-406) and index.

Computation and Control IV

Proceedings of the Fourth Bozeman Conference, Bozeman, Montana, August 3–9, 1994

Springer Science & Business Media Proceedings of a conference of leading experts in control theory, numerical mathematics and various application areas. The conference's interdisciplinary dialogue not only creates new mathematical tools, it often produces new research problems in the individual disciplines, aiming to develop rigorous numerical methods and computational tools for control design and analysis.

Assistive Technology for Blindness and Low Vision

CRC Press Assistive technology has made it feasible for individuals with a wide range of impairments to engage in many activities, such as education and employment, in ways not previously possible. The key factor is to create consumer-driven technologies that solve the problems by addressing the needs of persons with visual impairments. *Assistive Technology for Blindness and Low Vision* explores a broad range of technologies that are improving the lives of these individuals. Presenting the current state of the art, this book emphasizes what can be learned from past successful products, as well as what exciting new solutions the future holds. Written by world-class leaders in their field, the chapters cover the physiological bases of vision loss and the fundamentals of orientation, mobility, and information access for blind and low vision individuals. They discuss technology for multiple applications (mobility, wayfinding, information access, education, work, entertainment), including both established technology and cutting-edge research. The book also examines computer and digital media access and the scientific basis for the theory and practice of sensory substitution. This volume provides a holistic view of the elements to consider when designing assistive technology for persons with visual impairment, keeping in mind the need for a user-driven approach to successfully design products that are easy to use, well priced, and fill a specific need. Written for a broad audience, this book provides a comprehensive overview and in-depth descriptions of current technology for designers, engineers, practitioners, rehabilitation professionals, and all readers interested in the challenges and promises of creating successful assistive technology.

Radical Constructivism in Action

Building on the Pioneering Work of Ernst Von Glasersfeld

Routledge Over the last twenty-five years Ernst von Glasersfeld has had a tremendous impact on mathematics and science education through his fundamental insights into the nature of knowledge and knowing. *Radical Constructivism in Action* is a new volume of papers honouring his work by building on his model of knowing. The contributions by leading researchers present constructivism in action, tying the authors' actions regarding practical problems of mathematics and science education, philosophy, and sociology to their philosophical constraints, giving meaning to constructivism operationally. The book begins with a retrospective analogy between radical constructivism's emergence and changes in what is thought of as "certain" scientific knowledge. It aims to increase understanding of constructivism and Glasersfeld's achievement, and is vibrant evidence of the continued vitality of research in the constructivism tradition.

The Handbook of Mathematics Teacher Education: Volume 3

Participants in Mathematics Teacher Education

BRILL *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.

CTET Paper 2 Science & Mathematics 12 Solved + 15 Practice Sets (Class 6 - 8 Teachers) 6th Edition

Disha Publications

The Project Physics Course: Reader

CTET Practice Workbook Paper 2 – Science & Mathematics (10 Solved + 10 Mock papers) Class 6 - 8 Teachers 5th Edition

Disha Publications *CTET Practice Workbook Paper 2 – Science/ Maths (10 Solved + 10 Mock papers), English Edition, contains 10 challenging Mock Papers along with 10 Past Solved Papers. The Mock Tests follows the exact pattern as per the latest CTET paper. The book also contains the solution to the past CTET papers of June 2011, Jan & Nov 2012, July 2013, Feb & Sep 2014, Feb & Sep 2015 and Feb & Sep 2016 Papers. The languages covered in the tests are English (1st language) and Hindi (2nd language). Each Practice Set in the book contains sections on Child Development & Pedagogy, English, Hindi, Mathematics and Science. The question papers have been set very diligently so as to give a real-feel of the actual TET. The book is also useful for other State TETs - UPTET, Rajasthan TET, Haryana TET, Bihar TET, Uttarakhand TET etc.*

Second International Handbook of Science Education

Springer Science & Business Media *The International Handbook of Science Education is a two volume edition pertaining to the most significant issues in science education. It is a follow-up to the first Handbook, published in 1998, which is seen as the most authoritative resource ever produced in science education. The chapters in this edition are reviews of research in science education and retain the strong international flavor of the project. It covers the diverse theories and methods that have been a foundation for science education and continue to characterize this field. Each section contains a lead chapter that provides an overview and synthesis of the field and related chapters that provide a narrower focus on research and current thinking on the key issues in that field. Leading researchers from around the world have participated as authors and consultants to produce a resource that is comprehensive, detailed and up to date. The chapters provide the most recent and advanced thinking in science education making the Handbook again the most authoritative resource in science education.*

Inside Mathforum.org

Analysis of an Internet-Based Education Community

Cambridge University Press *The internet has dramatically transformed social space and time for many people in many different contexts. This dramatic warping of the social fabric has happened slowly over time as digital technologies have evolved and internet speeds have increased. While we are all aware of these changes, the impact is often little understood. There are few monographs about social groups made possible by the internet, and even fewer about educational communities made possible through digital technologies. Inside Mathforum.org details the ways that digital media are used to enhance the practices that teachers and students of mathematics engage in. The book also shows how different kinds of mathematical conversations and interactions become possible through the digital media. Unlike many other educational uses of digital media, the Math Forum's community has provided online resources and sustained support for teachers and students, and it leads the way in showing the power of digital media for education.*

Evolutionary Computer Vision

The First Footprints

Springer *This book explains the theory and application of evolutionary computer vision, a new paradigm where challenging vision problems can be approached using the techniques of evolutionary computing. This methodology achieves excellent results for defining fitness functions and representations for problems by merging evolutionary computation with mathematical optimization to produce automatic creation of emerging visual behaviors. In the first part of the book the author surveys the literature in concise form, defines the relevant terminology, and offers historical and philosophical motivations for the key research problems in the field. For researchers from the computer vision community, he offers a simple introduction to the evolutionary computing paradigm. The second part of the book focuses on implementing evolutionary algorithms that solve given problems using working programs in the major fields of low-, intermediate- and high-level computer vision. This book will be of value to researchers, engineers, and students in the fields of computer vision, evolutionary computing, robotics, biologically inspired mechatronics, electronics engineering, control, and artificial intelligence.*

Building a Shared Vision for Environmental Education Proceedings

Elementary Mathematics Specialists

Developing, Refining, and Examining Programs That Support Mathematics Teaching and Learning

IAP Elementary mathematics specialists are teacher leaders who are responsible for supporting effective PK-6 mathematics instruction and student learning. The Association of Mathematics Teacher Educators (AMTE), the Association of State Supervisors of Mathematics, the National Council of Supervisors of Mathematics, and the National Council of Teachers of Mathematics, in a 2010 joint position paper on Elementary Mathematics Specialists (EMSs), all advocate for the use of EMSs to support the teaching and learning of mathematics. The specific roles and expectations of EMSs will vary according to the needs of each setting, "but their expertise and successful experience at the elementary level is critical" (p 1). *Elementary Mathematics Specialists: Developing, Refining, and Examining Programs that Support Mathematics Teaching and Learning* is AMTE's latest resource supporting the important work of EMSs. It has five sections related to the preparation and professional development of EMSs: (a) Overview and Current State of Affairs; (b) Models of EMS Program Development & Delivery; (c) Supporting EMSs in the Field; (d) The Mathematics Specialist Research; and (e) Future Directions. The book provides support to EMS practitioners, program providers/developers, and researchers seeking to answer important questions about how to prepare Mathematics Specialists, support them in the field, and research their effectiveness.

Building A Shared Vision For Environmental Education

A Conference Sponsored By The Federal Task Force On Environmental Education

DIANE Publishing Details the discussions and conclusions of the conference sponsored by the Federal Task Force on Environmental Education.

Catalog of Copyright Entries. Third Series

1950

Copyright Office, Library of Congress Includes Part 1A: Books and Part 1B: Pamphlets, Serials and Contributions to Periodicals

Robotics in Education

Methodologies and Technologies

Springer Nature This proceedings book comprises the latest achievements in research and development in educational robotics presented at the 11th International Conference on Robotics in Education (RiE), which was carried out as a purely virtual conference from September 30 to October 2, 2020. Researchers and educators will find valuable methodologies and tools for robotics in education that encourage learning in the fields of science, technology, engineering, arts and mathematics (STEAM) through the design, creation and programming of tangible artifacts for creating personally meaningful objects and addressing real-world societal needs. This also involves the introduction of technologies ranging from robotics platforms to programming environments and languages. Evaluation results prove the impact of robotics on the students' interests and competence development. The presented approaches cover the whole educative range from elementary school to university in both formal as well as informal settings.

Arts and Technology

Second International Conference, ArtsIT 2011, Esbjerg, Denmark, December 10-11, 2011, Revised Selected

Papers

Springer *This book constitutes the thoroughly refereed post-conference proceedings of the Second International Conference on Arts and Technology, ArtsIT 2011, which was held in December 2011 in Esbjerg, Denmark. The 19 revised full papers and the two poster papers cover various topics such as Interaction and Art, Music and Performance, and Digital Technology.*

Secondary Two Mathematics

An Integrated Approach

Never Mind the Answer, What's the Question?

Adaptive Mechanisms in the Ecology of Vision

Springer Science & Business Media *John Lythgoe was one of the pioneers of the 'Ecology of Vision', a subject that he ably delineated in his classic and inspirational book published some 20 years ago [1]. At heart, the original book aimed generally to identify inter-relationships between vision, animal behaviour and the environment. John Lythgoe excelled at identifying the interesting 'questions' in the ecology of an animal that fitted the 'answers' presented by an analysis of the visual system. Over the last twenty years, however, since Lythgoe's landmark publication, much progress has been made and the field has broadened considerably. In particular, our understanding of the 'adaptive mechanisms' underlying the ecology of vision has reached considerable depths, extending to the molecular dimension, partly as a result of development and application of new techniques. This complements the advances made in parallel in clinically oriented vision research [2]. The current book endeavours to review the progress made in the ecology of vision field by bringing together many of the major researchers presently active in the expanded subject area. The contents deal with theoretical and physical considerations of light and photoreception, present examples of visual system structure and function, and delve into aspects of visual behaviour and communication. Throughout the book, we have tried to emphasise one of the major themes to emerge within the ecology of vision: the high degree of adaptability that visual mechanisms are capable of undergoing in response to diverse, and dynamic, environments and behaviours.*

Mathematics and Technology

A C.I.E.A.E.M. Sourcebook

Springer *This volume collects most recent work on the role of technology in mathematics education. It offers fresh insight and understanding of the many ways in which technological resources can improve the teaching and learning of mathematics. The first section of the volume focuses on the question how a proposed mathematical task in a technological environment can influence the acquisition of knowledge and what elements are important to retain in the design of mathematical tasks in computing environments. The use of white smart boards, platforms as Moodle, tablets and smartphones have transformed the way we communicate both inside and outside the mathematics classroom. Therefore the second section discussed how to make efficient use of these resources in the classroom and beyond. The third section addresses how technology modifies the way information is transmitted and how mathematical education has to take into account the new ways of learning through connected networks as well as new ways of teaching. The last section is on the training of teachers in the digital era. The editors of this volume have selected papers from the proceedings of the 65th, 66th and 67th CIEAEM conference, and invited the correspondent authors to contribute to this volume by discussing one of the four important topics. The book continues a series of sourcebooks edited by CIEAEM, the Commission Internationale pour l'Étude et l'Amélioration de l'Enseignement des Mathématiques / International Commission for the Study and Improvement of Mathematics Education.*

Afterschool Matters

Creative Programs That Connect Youth Development and Student Achievement

Corwin Press *This book addresses the challenges of designing effective afterschool activities, provides quality program models from experts in the field, and aligns learning standards with youth development principles.*

Computer Science and Engineering Education for Pre-

collegiate Students and Teachers

MDPI Now more than ever, as a worldwide STEM community, we need to know what pre-collegiate teachers and students explore, learn, and implement in relation to computer science and engineering education. As computer science and engineering education are not always “stand-alone” courses in pre-collegiate schools, how are pre-collegiate teachers and students learning about these topics? How can these subjects be integrated? Explore six articles in this book that directly relate to the currently hot topics of computer science and engineering education as they tie into pre-collegiate science, technology, and mathematics realms. There is a systematic review article to set the stage of the problem. Following this overview are two teacher-focused articles on professional development in computer science and entrepreneurship venture training. The final three articles focus on varying levels of student work including pre-collegiate secondary students’ exploration of engineering design technology, future science teachers’ (collegiate students) perceptions of engineering, and pre-collegiate future engineers’ exploration of environmental radioactivity. All six articles speak to computer science and engineering education in pre-collegiate forums, but blend into the collegiate world for a look at what all audiences can bring to the conversation about these topics.

SIERPINSKA MATHEMATICS EDUCATI,

Springer Science & Business Media

Gainsborough's Vision

Liverpool University Press Thomas Gainsborough, one of the most popular British painters, has been celebrated as a landscapist, a portrait painter, and a man of feeling whose impetuous character is revealed in his art, life and letters. This book reveals that the style, themes and ideas of Gainsborough’s paintings constitute purposeful expressions of an intellectual and visual culture whose importance in the development of eighteenth-century British art has gone unrecognized. “Amal Asfour and Paul Williamson have set out to make us look more knowledgeably at the paintings of Gainsborough... their treatment is richly informative.”—George Steiner, *The Observer* “Asfour and Williamson display a profound knowledge of 18th-century aesthetics... a highly stimulating book.”—*The British Art Journal*

Mathematics Education as a Research Domain: A Search for Identity

An ICMJ Study

Springer Science & Business Media The present book is the result of the reflection of many individuals in mathematics education on questions such as: Is mathematics education a science? Is it a discipline? In what sense? The reader will find a range of possible answers to these questions, a variety of analyses of the actual directions of research in different countries, and a number of visions for the future of research in mathematics education.