



Mathematics teaching, learning, and assessment in the digital age

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Abstract

The role of teaching, learning, and assessment with digital technology has become increasingly prominent in mathematics education. This survey paper provides an overview of how technology has been transforming teaching, learning, and assessment in mathematics education in the digital age and suggests how the field will evolve in the coming years. Based on several decades of research and educational practices, we discuss and anticipate the multifaceted impact of technology on mathematics education, thus laying the groundwork for the other papers in this issue. After a brief introduction discussing the motivations for this issue, we focus our attention on three lines of research: teaching mathematics with technology, learning mathematics with technology, and assessment with technology. We point to new research orientations that address the issue of teaching with technology, specifically describing attempts to conceptualise teachers' mathematical and digital competencies, perspectives that view teachers as designers of digital resources, and the design and evaluation of long-term initiatives to support teachers as they develop innovative teaching practices enhanced by digital technologies. Our examination shows that learning with technology is still marked by new conceptualizations raised by researchers that can further our understanding of this complex issue. These conceptualizations support the recognition that multiple resources, ranging from paper and pencil to augmented reality, participate in the learning process. Finally, assessment with technology, especially in the formative sense, offers new possibilities for offering individualised support for learners that can benefit from adaptive systems, though more tasks for conceptual understanding need to be developed.

Keywords Teaching with technology · Learning with technology · Assessment with technology · Mathematics education

1 Introduction

The widespread availability of digital educational technologies and resources will increasingly influence mathematics teaching and learning in the coming years. How will this growing influence affect teachers and students of mathematics? Which digital and analogue resources will be used in the classroom? How will the use of digital technology affect the theory of mathematics education and the implementation of ideas in the classroom? And finally, what are the consequences for ongoing and final classroom assessments? These questions have been discussed extensively

over the last decades in diverse mathematics education journals (see especially ZDM issues 55(1), 2023; 52(7), 2020; 52(5), 2020; 49(5), 2017; 44(6), 2012; 42(7), 2010; 41(4), 2009; 34(3), 2002) and at many conferences, especially the biennial *Congress of the European Society for Research in Mathematics Education* (CERME), which began in 1999. In 2018, a group of participants who were deeply involved in the CERME Thematic Working Groups on Technology took the initiative to launch the ERME Topic Conference for *Mathematics Education in the Digital Age* (MEDA). This conference sought to expand discussion of theoretical and practical knowledge and experience in the context of digital technologies and to look ahead at how mathematics education ought to be shaped in the coming years. The articles in this issue are significantly influenced by the three MEDA conferences and in particular are based on papers given at the 2022 MEDA3 conference held in Nitra, Slovakia (Weigand et al., 2022).

We begin by explaining the terminology we use in this article, followed by our methodological considerations. The

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improving classroom instruction and list resources for further reading **Journal of Education** ,1914 Resources in Education ,1997 *Third International Handbook of Mathematics Education* M.A. (Ken) Clements,Alan Bishop,Christine Keitel-Kreidt,Jeremy Kilpatrick,Frederick Koon-Shing Leung,2012-11-15 The four sections in this Third International Handbook are concerned with a social political and cultural dimensions in mathematics education b mathematics education as a field of study c technology in the mathematics curriculum and d international perspectives on mathematics education These themes are taken up by 84 internationally recognized scholars based in 26 different nations Each of section is structured on the basis of past present and future aspects The first chapter in a section provides historical perspectives How did we get to where we are now the middle chapters in a section analyze present day key issues and themes Where are we now and what recent events have been especially significant and the final chapter in a section reflects on policy matters Where are we going and what should we do Readership Teachers mathematics educators ed policy makers mathematicians graduate students undergraduate students Large set of authoritative international authors **Journal of Education and School World** ,1887 “The” *Athenaeum* ,1896 Educational Times ,1889 *The Educational Times, and Journal of the College of Preceptors* ,1921 **London University Guide** ,1903 *The Athenæum* James Silk Buckingham,John Sterling,Frederick Denison Maurice,Henry Stebbing,Charles Wentworth Dilke,Thomas Kibble Hervey,William Hepworth Dixon,Norman Maccoll,Vernon Horace Rendall,John Middleton Murry,1878 **Precalculus with Limits** Ron Larson,Robert P. Hostetler,Bruce H. Edwards,2001 For a full description see Larson et al College Algebra A Graphing Approach 3 e

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Table of Contents What We Know About Mathematics Teaching And Learning Third Edition

1. Understanding the eBook What We Know About Mathematics Teaching And Learning Third Edition
 - The Rise of Digital Reading What We Know About Mathematics Teaching And Learning Third Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying What We Know About Mathematics Teaching And Learning Third Edition
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an What We Know About Mathematics Teaching And Learning Third Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from What We Know About Mathematics Teaching And Learning Third Edition

- Personalized Recommendations
- What We Know About Mathematics Teaching And Learning Third Edition User Reviews and Ratings
- What We Know About Mathematics Teaching And Learning Third Edition and Bestseller Lists
- 5. Accessing What We Know About Mathematics Teaching And Learning Third Edition Free and Paid eBooks
 - What We Know About Mathematics Teaching And Learning Third Edition Public Domain eBooks
 - What We Know About Mathematics Teaching And Learning Third Edition eBook Subscription Services
 - What We Know About Mathematics Teaching And Learning Third Edition Budget-Friendly Options
- 6. Navigating What We Know About Mathematics Teaching And Learning Third Edition eBook Formats
 - ePub, PDF, MOBI, and More
 - What We Know About Mathematics Teaching And Learning Third Edition Compatibility with Devices
 - What We Know About Mathematics Teaching And Learning Third Edition Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of What We Know About Mathematics Teaching And Learning Third Edition
 - Highlighting and Note-Taking What We Know About Mathematics Teaching And Learning Third Edition
 - Interactive Elements What We Know About Mathematics Teaching And Learning Third Edition
- 8. Staying Engaged with What We Know About Mathematics Teaching And Learning Third Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers What We Know About Mathematics Teaching And Learning Third Edition
- 9. Balancing eBooks and Physical Books What We Know About Mathematics Teaching And Learning Third Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection What We Know About Mathematics Teaching And Learning Third Edition
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine What We Know About Mathematics Teaching And Learning Third Edition
 - Setting Reading Goals What We Know About Mathematics Teaching And Learning Third Edition
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of What We Know About Mathematics Teaching And Learning Third Edition

- Fact-Checking eBook Content of What We Know About Mathematics Teaching And Learning Third Edition
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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