



Habtamu Shenkut

Teachers' Perception, Knowledge And Use Modeling For Teaching



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Teachers Perception Knowledge And Use Modeling For Teaching

Jan H. van Driel



Teachers Perception Knowledge And Use Modeling For Teaching:

Teachers' Perception, Knowledge And Use Modeling For Teaching Habtamu Shenkut, 2014 This work was intended to access teachers' perceptions and statistical knowledge for teaching statistics using modeling in secondary schools. The data were collected from secondary school mathematics teachers in Addis Ababa, Ethiopia. Questionnaire and interview were instruments employed for data collection. Thus, the findings indicated that most respondents have positive perceptions for teaching statistics topics. Other main finding was teachers' statistical knowledge. The results indicated that a minority of teachers haven't necessary statistical knowledge for teaching statistical topics. Because in my country Ethiopia, mathematics teachers were trained to teach mathematics rather than statistics and they were took sometimes one introductory statistic course. But in secondary schools mathematics book there are some statistical topics to be taught. It was also found that teachers didn't use modeling when they teach those topics because of different challenges like teacher's knowledge, time, motivation, facilities and students' background knowledge.

Modeling Students' Mathematical Modeling

Competencies Richard Lesh, Peter L. Galbraith, Christopher R. Haines, Andrew Hurford, 2013-03-17 Modeling Students Mathematical Modeling Competencies offers welcome clarity and focus to the international research and professional community in mathematics, science and engineering education as well as those involved in the sciences of teaching and learning these subjects. *Educational Research and Innovation: Teaching as a Knowledge Profession Studying Pedagogical Knowledge across Education Systems* OECD, 2021-10-14 What knowledge do teachers need for 21st century teaching? Today teachers have an important role in guiding and shaping students' use of digital tools and optimising the educational benefits of their digital experiences.

Towards a Competence-Based View on Models and Modeling in Science Education

Annette Upmeyer zu Belzen, Dirk Krüger, Jan van Driel, 2020-01-01 The book takes a closer look at the theoretical and empirical basis for a competence-based view of models and modeling in science learning and science education research. Current thinking about models and modeling is reflected. The focus lies on the development of modeling competence in science education and on philosophical aspects including perspectives on nature of science. The book explores, interprets and discusses models and modeling from the perspective of different theoretical frameworks and empirical results. The extent to which these frameworks can be integrated into a competence-based approach for science education is discussed. In addition, the book provides practical guidance by outlining evidence-based approaches to diagnosing and promoting modeling competence. The aim is to convey a strong understanding of models and modeling for professions such as teacher educators, science education researchers, teachers and scientists. Different methods for the diagnosis and assessment of modeling competence are presented and discussed with regard to their potential and limitations. The book provides evidence-based ideas about how teachers can be supported in teaching with models and modeling, implementing a competence-based approach and thus how students can develop their modeling competence. Based on the findings, research challenges for the

future are identified

Teacher Thinking, Beliefs and Knowledge in Higher Education N. Hativa, Jeffrey Goodyear, 2001-11-30 This volume addresses the important problem of understanding good university teaching and focuses on the thinking beliefs and knowledge which accompany teachers actions It is the first book to address this area and it promises to become a landmark volume in the field helping us to understand a complex area of human activity and improve both teaching and learning It is for education researchers staff faculty developers and educational developers

Handbook of Research on Online Pedagogical Models for Mathematics Teacher Education Wachira, Patrick, Keengwe, Jared, 2019-11-29 Online learning has become an important vehicle for teacher and student learning When well designed online environments can be very powerful in a way that is consistent with the goals of inquiry experimentation investigation reasoning and problem solving so learners can develop a deep understanding of a subject Some subjects however are not well suited for this type of learning due to the need for small group collaborating and hands on problem solving The Handbook of Research on Online Pedagogical Models for Mathematics Teacher Education provides innovative insights into technology applications and tools used in teaching mathematics online and provides examples of online learning environments and platforms that are suitable for meeting math education goals of inquiry investigation reasoning and problem solving The content within this publication examines access to education professional development and web based learning It is designed for teachers curriculum developers instructional designers educational software developers IT consultants higher education faculty policymakers administrators researchers academicians and students

Mathematical Modelling Education and Sense-making Gloria Ann Stillman, Gabriele Kaiser, Christine Erna Lampen, 2020-05-14 This volume documents on going research and theorising in the sub field of mathematics education devoted to the teaching and learning of mathematical modelling and applications Mathematical modelling provides a way of conceiving and resolving problems in people s everyday lives as well as sophisticated new problems for society at large Mathematical modelling and real world applications are considered as having potential for cultivating sense making in classroom settings This book focuses on the educational perspective researching the complexities encountered in effective teaching and learning of real world modelling and applications for sense making is only beginning All authors of this volume are members of the International Community of Teachers of Mathematical Modelling ICTMA the peak research body into researching the teaching and learning of mathematical modelling at all levels of education from the early years to tertiary education as well as in the workplace

Unpacking Technological Pedagogical Content Knowledge for Classroom Practice Colin Lu, Wenli Chen, 2025-08-10 This book immerses readers in an illuminating exploration of Technological Pedagogical Content Knowledge TPACK within the context of professional development for educators Based on a systematic examination of classroom realities this research intensive book delves into the intricate interplay between teachers perceived TPACK proficiency their lesson design and the actual enactment of these lessons It emphasizes the role of TPACK in empowering

teachers to integrate Information and Communication Technology ICT effectively into their pedagogical practices thereby enhancing 21st Century Competencies 21CC in students This book seeks to unravel the alignment or potential misalignment between educators self assessed TPACK levels and the practical application of TPACK principles in the classroom It provides nuanced insights into the strategies employed by teachers drawing from authentic classroom experiences These insights serve as a bridge between TPACK theory and its effective integration into instructional practices Engaging and thought provoking the various chapters invite readers on an academic journey that unearths practical insights and actionable strategies for enriching the educational experience in the digital era This book represents a vital resource for educators researchers and policymakers dedicated to advancing technology integration in educational settings It also extends its benefits to educators who have engaged in TPACK design scaffold professional development and those keen on navigating the dynamic landscape of pedagogy content and technology

Science Teachers' Knowledge Development

Jan H. van Driel, 2021-11-29 In this volume Jan van Driel presents an overview of his research on the professional knowledge that science teachers develop and enact in their teaching to promote student understanding and engagement in science Using a selection of ten of his best publications van Driel explains his journey from a chemistry teacher to an international leader in research in science education He highlights collaborative projects with colleagues and students that have contributed to a better understanding of the nature of science teachers professional knowledge and how it develops in the context of teacher education and reforms of science education He discusses the impact of this research on the international research community and on the practice and policy of science education

Artificial Intelligence Literacy in Higher Education

Imre Fekete, 2025-07-08 This book explores the concept of artificial intelligence AI literacy within higher education addressing both instructors and students preparedness to engage with AI technologies responsibly and effectively By synthesising existing frameworks and empirical studies alongside presenting two original research studies the book bridges theoretical foundations with practical applications tailored for modern educational contexts Practical recommendations include methods to develop AI literacy skills focusing on ethical awareness technological competence and the potential for AI to enhance teaching and learning processes Aimed at higher education instructors stakeholders and students the book offers actionable insights and tools for fostering informed and critical engagement with AI aligned with lifelong learning goals and professional development needs

Repositioning Pedagogical Content Knowledge in Teachers' Knowledge for Teaching Science

Anne Hume, Rebecca Cooper, Andreas Borowski, 2019-01-28 This book enhances readers understanding of science teachers professional knowledge and illustrates how the Pedagogical Content Knowledge research agenda can make a difference in teachers practices and how students learn science Importantly it offers an updated international perspective on the evolving nature of Pedagogical Content Knowledge and how it is shaping research and teacher education agendas for science teaching The first few chapters background and introduce a new model known as the Refined Consensus Model RCM

of Pedagogical Content Knowledge PCK in science education and clarify and demonstrate its use in research and teacher education and practice Subsequent chapters show how this new consensus model of PCK in science education is strongly connected with empirical data of varying nature contains a tailored language to describe the nature of PCK in science education and can be used as a framework for illuminating past studies and informing the design of future PCK studies in science education By presenting and discussing the RCM of PCK within a variety of science education contexts the book makes the model significantly more applicable to teachers work

Handbook of Research on Pedagogical Models for Next-Generation Teaching and Learning Keengwe, Jared, 2017-10-31 Every generation of students comes to the classroom with different needs than that of their predecessors Implementing new methods and styles of teaching to meet these diverse needs will provide students with the best chance of success in their educational careers The Handbook of Research on Pedagogical Models for Next Generation Teaching and Learning is a critical scholarly source that examines the most effective and efficient techniques for implementing new educational strategies in a classroom setting Featuring pertinent topics including mixed reality simulations interactive lectures reflexive teaching models and project based learning this is an ideal publication for educators academicians students and researchers that are interested in discovering more about the recent advances in educational fields

Issues in Education by Subject, Profession, and Vocation: 2013 Edition, 2013-05-01 Issues in Education by Subject Profession and Vocation 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Health Education Research The editors have built Issues in Education by Subject Profession and Vocation 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Health Education Research in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Education by Subject Profession and Vocation 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Resources in Education, 2001 *Models and Modeling* Myint Swe Khine, Issa M. Saleh, 2011-03-01 The process of developing models known as modeling allows scientists to visualize difficult concepts explain complex phenomena and clarify intricate theories In recent years science educators have greatly increased their use of modeling in teaching especially real time dynamic modeling which is central to a scientific investigation Modeling in science teaching is being used in an array of fields everything from primary sciences to tertiary chemistry to college physics and it is sure to play an increasing role in the future of education Models and Modeling Cognitive Tools for Scientific Enquiry is a comprehensive introduction to the use of models and modeling in science education It identifies and describes many different modeling tools and presents recent applications of modeling as a

cognitive tool for scientific enquiry

Applying the Flipped Classroom Model to English Language Arts Education

Young, Carl A., Moran, Clarice M., 2017-03-31 The flipped classroom method particularly when used with digital video has recently attracted many supporters within the education field Now more than ever language arts educators can benefit tremendously from incorporating flipped classroom techniques into their curriculum Applying the Flipped Classroom Model to English Language Arts Education provides a comprehensive examination of the latest strategies for incorporating the flipped classroom technique into English language courses Highlighting innovative practices and applications in many areas such as curriculum development digital tools and instructional design this book is an ideal reference source for academicians educators students practitioners and researchers who are interested in the advancement of the flipped classroom model in curriculums

Researching Pedagogy and Practice with Canadian Mathematics Teachers David A Reid, Christine Suurtamm, Annie Savard, Elaine Simmt, Dominic Manuel, Lisa Lunney Borden, Richard Barwell, 2020-06-01 The past two decades have seen an increased interest in education especially in core areas such as mathematics language and science This is in part a consequence of the increase in the number of international comparisons of educational outcomes such as PISA and TIMSS Much research has focused on the contributions that curricula financial resources parental support and so on might have on educational outcomes A factor that seems likely to have a very significant effect on student achievement teachers practices and beliefs has received little attention This book reports results from a research program that sought to develop and employ research methods to compare teachers practices and beliefs across Canada It provides insight into the challenge of such research and describes teachers contexts beliefs and practices and how they differ in four regions and across two languages Using a multivocal ethnography approach Tobin 1999 teachers were involved in the preparation and discussion of videos of their own teaching and that of others This approach resulted in not only insights into the teachers pedagogies and practices but also opportunities for the teachers to reflect on their own teaching in new ways and for researchers to reflect on research practices and orientations The work is innovative in several ways In a field crowded with research on teachers practices beliefs and knowledge this research helps to unearth the implicit values that underlie the way teachers see teaching itself Through the process of observation of each other s practice the teachers became aware of their own pedagogies giving them new insights into their values and practices Researchers also engaged in a parallel process of reflection on their own practices as observers of teachers with similar insights into the values guiding their work This book will be of interest to government policy makers teachers and teacher educators as well as researchers in Mathematics Education Members of the AERA SIG in Research in Mathematics Education the Canadian Mathematics Education Study Group the NCTM and provincial Mathematics teacher associations are potential readers Praise for Researching Pedagogy and Practice with Canadian Mathematics Teachers What a treasure This book is an important resource for anyone interested in high quality mathematics teaching It fills a gap in our understanding of how mathematics is taught across Canada where

students are among the highest performing on international mathematics assessments The studies reported are conceptually grounded methodologically rigorous and filled with nuanced observations of the similarity and variation in classroom teaching across many of the Canadian provinces Edward A Silver Senior Associate Dean for Research Graduate Studies William A Brownell Collegiate Professor of Education Professor of Mathematics University of Michigan Innovations and Technologies in Science/STEM Education: Opportunities, Challenges and Sustainable Practices Wang-Kin Chiu,Hon-Ming Lam,Morris Siu Yung Jong,2024-04-01 In our digital era harnessing innovations and emerging technologies to support teaching and learning has been an important research area in the field of education around the world In science STEM education technologies can be leveraged to present and visualize scientific theories and concepts effectively while the development of pedagogic innovations usually requires collective inter disciplinary research efforts In addition emerging technologies can better support teachers to assess students learning performance in STEM subjects and offer students viable virtual environments to facilitate laboratory based learning thereby contributing to sustainable development in both K 12 and higher education **Mathematics Teachers Engaging with Representations of Practice** Orly Buchbinder,Sebastian Kuntze,2018-01-09 This book presents innovative approaches and state of the art empirical studies on mathematics teacher learning It highlights the advantages and challenges of such tools as classroom videos concept cartoons simulations and scenarios The book details how representations of practice encourage and afford professional development and describes how these tools help to investigate aspects of teacher expertise beliefs and conceptions In addition the book identifies the methodological challenges that can emerge and the obstacles educators might encounter when using representations of practice The book examines the nature of these challenges and provides suggestions for solving them It offers a variety of different approaches that can help educators to develop professional learning activities for prospective and in service teachers **Pedagogies of Compassion and Care in Education** Rahmat, Mindith R.,Osborne, Amy,2024-12-13 Educators worldwide grapple with fostering meaningful connections in increasingly digital and fast paced learning environments The rapid evolution of technology presents unique challenges often distancing teachers from students and inhibiting empathetic engagement Pedagogies of Compassion and Care in Education provides a holistic solution to this pressing issue This groundbreaking book comprehensively environments Drawing on education psychology and counseling research it equips educators with practical strategies to transform their teaching methods The book is a vital resource for educators seeking to integrate compassion and care into their teaching practices This book offers a roadmap for fostering supportive and nurturing learning environments in a world characterized by rapid change technological advancements and heightened socio emotional challenges It invites contributions from educators researchers and practitioners across all levels of education encouraging a diverse range of perspectives By showcasing theoretical insights and practical approaches including case studies and empirical research the book empowers educators to implement innovative pedagogies of care in their classrooms

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