



Developing Models in Science Education



Edited by

**John K. Gilbert and
Carolyn J. Boulter**



Kluwer Academic Publishers

Developing Models In Science Education

Myint Swe Khine, Issa M. Saleh



Developing Models In Science Education:

Developing Models in Science Education J.K. Gilbert, C. Boulter, 2012-12-06 Models and modelling play a central role in the nature of science in its conduct in the accreditation and dissemination of its outcomes as well as forming a bridge to technology They therefore have an important place in both the formal and informal science education provision made for people of all ages This book is a product of five years collaborative work by eighteen researchers from four countries It addresses four key issues the roles of models in science and their implications for science education the place of models in curricula for major science subjects the ways that models can be presented to are learned about and can be produced by individuals the implications of all these for research and for science teacher education The work draws on insights from the history and philosophy of science cognitive psychology sociology linguistics and classroom research to establish what may be done and what is done The book will be of interest to researchers in science education and to those taking courses of advanced study throughout the world

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

Modelling Learners and Learning in Science Education Keith S. Taber, 2013-12-11 This book sets out the necessary processes and challenges involved in modeling student thinking understanding and learning The chapters look at the centrality of models for knowledge claims in science education and explore the modeling of mental processes knowledge cognitive development and conceptual learning The conclusion outlines significant implications for science teachers and those researching in this field This highly useful work provides models of scientific thinking from different field and analyses the processes by which we can arrive at claims about the minds of others The author highlights the logical impossibility of ever knowing for sure what someone else knows understands or thinks and makes the case that researchers in science education need to be much more explicit about the extent to which research onto learners ideas in science is necessarily a process of developing models Through this book we learn that research reports should acknowledge the role of modeling and avoid making claims that are much less tentative than is justified as this can lead to misleading and sometimes contrary findings in the literature In everyday life we commonly take it for granted that finding out what another knows or thinks is a relatively trivial or straightforward process We come to take the mental register the way we talk about the contents of minds for granted and so teachers and researchers may readily underestimate

the challenges involved in their work

Visualization in Science Education John K. Gilbert, 2005-07-05 Visualization meaning both the perception of an object that is seen or touched and the mental imagery that is the product of that perception is believed to be a major strategy in all thought It is particularly important in science which seeks causal explanations for phenomena in the world as experienced Visualization must therefore play a major role in science education This book addresses key issues concerning visualization in the teaching and learning of science at any level in educational systems Visualization in Science Education draws on the insights from cognitive psychology science and education by experts from Australia Israel Slovenia UK and USA It unites these with the practice of science education particularly the ever increasing use of computer managed modelling packages especially in chemistry The first section explores the significance and intellectual standing of visualization The second section shows how the skills of visualization have been developed practically in science education This is followed by accounts of how the educational value of visualization has been integrated into university courses in physics genomics and geology The fourth section documents experimental work on the classroom assessment of visualization An endpiece summarises some of the research and development needed if the contribution of this set of universal skills is to be fully exploited at all levels and in all science subjects

[Towards a Competence-Based View on Models and Modeling in Science Education](#) Annette Upmeier 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

World Trends in Science and Technology Education Geoffrey B Harrison, 1985 *Science Education International*, 2001

Exploring Middle School Science Students' Computer-based Modeling Practices and Their Changes Over Time Baohui Zhang, 2003 Modeling has been promoted by major policy organizations as important for science learning The purpose of this dissertation is to describe and explore middle school science students computer based modeling practices and their changes over time using a scaffolded modeling

program *Science Education in Developing Countries* Keith M. Lewin,1992 *The National Science Foundation and Pre-college Science Education, 1950-1975* Library of Congress. Science Policy Research Division,1975 **Science Education** ,1928 *Proceedings of the National Science Council, Republic of China* ,2000 *Proceedings of the ... Annual Conference and ... Conference of CASTME Africa* Science Teachers Association of Nigeria. Conference,2002 Resources in Education ,1996 **Using a Motivation-based Instructional Model for Teacher Development and Students' Learning of Science** Min-Jung Bae,2009 U.S. Government Research & Development Reports ,1965 *Exploring the Role of Curriculum Materials to Support Teachers in Science Education Reform* Rebecca M. Schneider,2001 *Science, Technology & Society* ,1992 *Earth and Mind II* Kim A. Kastens,Cathryn A. Manduca,2012 Articles refer to teaching at various different levels from kindergarten to graduate school with sections on teaching geologic time space complex systems and field work Each section includes an introduction a thematic paper and commentaries **Current Index to Journals in Education** ,2001

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