

Reforming Science Education

SOCIAL PERSPECTIVES &
PERSONAL REFLECTIONS

RODGER W. BYBEE

*Ways of Knowing
in Science Series*

Reforming Science Education Social Perspectives And Personal Reflections

Ensheng Dong



Reforming Science Education Social Perspectives And Personal Reflections:

Reforming Science Education Rodger W. Bybee, 1993 **Researching and Teaching Social Issues** Samuel Totten, Jon Pedersen, 2012-05-01 originally published by Lexington Books A division of Rowman Littlefield Researching and Teaching Social Issues The Personal Stories and Pedagogical Efforts of Professors of Education is comprised of original personal essays in which notable teacher educators delineate the genesis and evolution of their thought and work vis a vis the teaching of social issues In relating their personal stories the authors were asked to discuss among other issues those individuals and or scholarly works that have most influenced them and how their own aspirations in the field the frustrations they have faced their perceptions of the field their major contributions and their current endeavors Our goal was that each and every story be as informative instructive and engaging as possible We believe that readers will be thoroughly engaged as they read the stories of these individuals stories that are inspiring filled with passion and reflective in nature We also believe that readers will gain unique pedagogical insights into the field and ample food for thought The individuals selected for inclusion in the book dedicated a great amount of time thought energy and commitment to creating powerful and pedagogically sound ways to teach about social and or controversial issues Many have done so for well over forty years and have been among the strongest advocates vis vis the place social issues have in the extant curriculum and beyond Inside Science Education Reform J. Myron Atkin, Paul Black, 2003-01-01 Two international leaders offer important insights into the ways in which the discipline of science education has developed and how school curriculum has been shaped by both scientific discovery and social change J Myron Atkin U S and Paul Black U K share their vast and varied experiences in this historical account that chronicles the many developments in the field from the end of World War II to the present The chapters in this volume cover the aims and politics of science education curriculum development subject matter boundaries pedagogy and learning assessment and evaluation educational research and practice and the teaching profession Each theme is introduced in its historical and philosophical context with current issues emphasized The authors then analyze these themes by drawing on relevant episodes from their transatlantic careers These episodes act as a springboard for developing insights into each theme including comparisons between educational practices in the United States and the United Kingdom Featuring compelling examples and a cohesive presentation this groundbreaking volume is essential reading for anyone making decisions about the future of science education *Going Back for Our Future* Jon Pedersen, Kevin D. Finson, Barbara S. Spector, Paul Jablon, 2013-04-01 This book is the first volume of an attempt to capture and record some of the answers to these questions either from the pioneers themselves or from those persons who worked most closely with them We know there are many pioneers and early trailblazers who are not included in this volume but there are other volumes to follow As we have posed questions rummaged through files and oft neglected books and probed the memories of many individuals we have come to realize our list of true pioneers is ever growing There are names on the list that most of us readily recognize

and there are names of whom few of us have heard yet who were significant in their roles as mentors or idea development and teaching We quickly discovered that the family tree showing connections between these people is not a neat clean simple branching tree but is more like spaghetti The connections are many are intertwined and all have their significance The stories in this volume demonstrate how vital this network was in supporting the individual pioneers during their journey in difficult times and continues to be for those of us today in our own enterprise

Emerging Research in Agricultural Teacher Education Barrick, R. Kirby, Thoron, Andrew C., 2024-05-06 Struggling to navigate the complex landscape of agricultural teacher education scholars face a daunting challenge the need for a comprehensive research synthesis tailored to their specific needs While valuable existing resources often need to provide the focused guidance required to address this discipline s myriad issues This gap leaves scholars needing a clear roadmap for advancing agricultural teacher education hindering progress and innovation in the field Emerging Research in Agricultural Teacher Education revolutionizes the field of education through agricultural research Offering a comprehensive synthesis of current research and proposing crucial areas for future investigation this book serves as the definitive solution to the challenges plaguing scholars in the field Consolidating decades of research and expertise into a single accessible volume it provides scholars with the tools they need to navigate the complexities of agricultural teacher education with confidence and clarity

Global Science Literacy V. J. Mayer, 2014-02-22 The authors propose the science curriculum concept of Global Science Literacy justifying its use internationally with reference to the nature of science the probable direction of science in the new millennium the capability for GSL to develop inter cultural understanding and its relevance to non Western cultures and traditions GSL curricula are organized conceptually rather than by science discipline include objectives from the social studies construct of global education and represent the broad spectrum of science methodologies not just those of the physical sciences typical of current curricula The book is recommended reading for all who are interested in the future of science curricula and interested in considering a non traditional viewpoint Curriculum developers and researchers future teachers and graduate students in general curriculum courses science education courses and social studies education courses and their professors should be particularly interested The book is divided into three sections In the first section the concept of Global Science Literacy and the justification of its use for science curricula internationally are developed The second section describes learning environments that are especially appropriate for GSL curricula The third and last section provides ideas and approaches for developing aspects of GSL curricula

Curriculum, Schooling and Applied Research Jennifer Donovan, Karen Trimmer, Nicholas Flegg, 2020-10-15 This book explores how teachers can navigate the complex process of managing change within the classroom The chapters highlight the new challenges that have arisen with the emergence and introduction of educational technology as teachers find themselves having to be responsive to the needs and demands of multiple stakeholders Traversing a range of conceptual disciplinary and methodological boundaries the editors and contributors

investigate the tensions that impinge on research based change and how to integrate directed changes into their education system and classroom Subsequently this volume argues that posing these questions leads to increased understanding of the possible long term effects of educational change and how teachers can know whether their solutions are effective

Making it comparable David Waddington, Peter Nentwig, Sascha Schanze, 2007 One of the most significant developments in school education in recent years has been the development and introduction of standards a subject of considerable controversy This book is the result of a symposium held in Kiel a symposium that was arranged by two leading science education groups one at IPN Leibniz Institute for Science Education at the University of Kiel in Germany and the other at the University of York UK The seminar brought together experts from 15 countries These countries include those that have extensive experience with the effects of standards on the educational system on individual schools and teachers and on students Other reports concern countries which are introducing them shortly and yet others on countries that are in the early stages of development of standards 11 are from Europe and the others are from Australia Israel Taiwan and the U S The book is divided into three parts In Part A two of the organizers set the scene describing the reasons for arranging the symposium and outlining the preparations and the work done at the meeting Part B contains 17 reports from the 15 countries and in Part C there are two summaries analysing the conclusions taken from two different vantage points The controversies surrounding standards remain However this book gives a succinct and authoritative overall account of the advantages and disadvantages of their introduction taken from the experiences of many countries *Connecting Physics Education*

Research and Practice Italo Testa, Marisa Michelini, Salvatore Esposito, 2025-08-15 This book presents a selection of the most recent research results from the Italian physics education research community aimed at enhancing the teaching and learning of physics The motivation for this publication arises from the lack of a comprehensive reference for teachers on research results in physics education Despite various physics curriculum reform initiatives such as the introduction of modern physics into high school curricula their effectiveness in improving the quality of physics teaching in schools has been limited The book offers a contextualized view of the main topics in physics education along with a comprehensive overview of the current challenges faced by physics education in Italy and abroad It also presents research findings that could potentially enhance students learning of physics Throughout the book the implications of these studies are outlined acknowledging issues and knowledge gaps that will guide future research in physics education Specifically rather than covering all the contents addressed in the physics curriculum the book presents research contributions that suggest potentially effective strategies methods and practices at different school levels from primary school to secondary school and university level Regarding physics content the book presents teaching proposals highlighting conceptual aspects and exemplary methodologies of interpretation in physics such as the physics of fluids and quantum mechanics It also includes research contributions on different methods and proposals for implementing practical activities reflecting on the role of the laboratory in learning the

discipline and providing examples of integrating experimental and cognitive skills The book also addresses the role of affective variables such as physics identity self efficacy and attitudes toward physics in the learning process Additionally studies on teachers professional development are presented which can inform the design of proposals for educational paths and methods within a framework of close collaboration between schools and physics departments *Transforming Middle School Science Education* Paul DeHart Hurd,2000-01-01 In this penetrating volume Paul DeHart Hurd combines more than half a century of experience and current scholarship with his vision for improving the middle school science curriculum While others have failed to center adolescents in science curricula Hurd recognizes the biological social and emotional needs of this population Looking toward the future to properly educate students now Hurd s curriculum presents today s youth with the culture of science and technology that has import in their lives The end result An important contribution to the study of curriculum and a substantial pedagogical tool from an eminent thinker **Leading Every Day** Joyce Kaser,Susan Mundry,Katherine E. Stiles,2013-09-11 Tap your greatest leadership potential and quickly get on track to meeting today s complicated challenges with this follow up to the best selling Learning Forward Book of the Year Revised and updated stories references and quotes complement a completely new section focused on achieving results Effective leadership exists in us all These short inspiration infused nuggets of actionable advice provide a path to get you there New features include A newly added Book 5 for help creating solid data systems and achievable results Over 150 convenient closely integrated daily contemplations to carry anywhere Succinct first hand insights on proven leadership best practices that inspire challenge and instruct Up to date research on creative solutions to leadership challenges change and professional development Build trust spark innovation and learn what it really takes to support a community of learners and leaders with this classic leadership resource Book jacket **ENC Focus** ,2000 **Resources in Education** ,1998-04 **Science Teaching/science Learning** Elnora S. Harcombe,2001-01-01 Science Teaching Science Learning based on a model professional development program gives powerful proof that urban teachers can ignite curiosity and promote deep understanding in children when provided with the necessary intellectual infrastructure including a complex balance of increased science knowledge a safe environment for professional experimentation and a long term interaction with colleagues The ensuing invigoration and renewed dedication of program participants belies the inevitability of the projected national science teacher shortage Harcombe breaks new ground demonstrating that when professional teacher development is based on constructivist learning theory and framed in the knowledge domain of the sciences it empowers teachers to dramatically change what they know how they teach and what their students learn **Designing Everyday Assessment in the Science Classroom** ,2005 This book describes how middle school science teachers in collaboration with a team of researchers tried to improve their everyday assessment practices to enhance student learning It discusses the challenges they faced the differences among the teachers and the personal nature of deep educational change A product of CAPITAL Classroom Assessment Project to

Improve Teaching and Learning a research effort supported by the National Science Foundation this book Uses classroom stories to show how teachers can use a variety of formative assessment techniques to answer questions they have about their teaching Provides real life examples of teachers grappling with new practices at a personal level in their own settings and in light of their own values and beliefs Offers suggestions for designing professional development efforts that recognize the significant variation among teachers in how they go about changing their assessment practices Outlines principles and practices that must accompany change in the classroom if it is to be more than superficial

Connecting Girls and Science Elaine V. Howes, 2002 Shows the positive results that can occur in secondary science classes when student s curiosity about science is brought to the centre of the curriculum In particular it demonstrates how girls can become more interested when such topics as childbirth and sexism in science are included

Improving Instruction in Rational Numbers and Proportionality Margaret Schwan Smith, Edward A. Silver, Mary Kay Stein, 2005-01-01 Helping students develop an understanding of important mathematical ideas is a persistent challenge for teachers In this book one of a three volume set well known mathematics educators Margaret Smith Edward A Silver and Mary Kay Stein provide teachers of mathematics the support they need to improve their instruction They focus on ways to engage upper elementary middle school and high school students in thinking reasoning and problem solving to build their mathematics understanding and proficiency The content focus of Volume One is rational numbers and proportionality Using materials that were developed under the NSF funded COMET Cases of Mathematics to Enhance Teaching program each volume in the set features cases from urban middle school classrooms with ethnically racially and linguistically diverse student populations Each case illustrates an instructional episode in the classroom of a teacher who is implementing standards based instruction the teachers perspective including their thoughts and actions as they interact with students and with key aspects of mathematical content cognitively challenging mathematics activities that are built around samples of authentic classroom practice and facilitation chapters to help professional developers teach the cases including specific guidelines for facilitating discussions and suggestions for connecting the ideas presented in the cases to a teacher s own practice As a complete set this resource provides a basis on which to build a comprehensive professional development program to improve mathematics instruction and student learning

Improving Instruction in Geometry and Measurement Margaret Schwan Smith, Edward A. Silver, Mary Kay Stein, 2005-01-01 Helping students develop an understanding of important mathematical ideas is a persistent challenge for teachers In this book one of a three volume set well known mathematics educators Margaret Smith Edward A Silver and Mary Kay Stein provide teachers of mathematics the support they need to improve their instruction They focus on ways to engage upper elementary middle school and high school students in thinking reasoning and problem solving to build their mathematics understanding and proficiency The content focus of Volume One is rational numbers and proportionality Using materials that were developed under the NSF funded COMET Cases of Mathematics to

Enhance Teaching program each volume in the set features cases from urban middle school classrooms with ethnically racially and linguistically diverse student populations Each case illustrates an instructional episode in the classroom of a teacher who is implementing standards based instruction the teachers perspective including their thoughts and actions as they interact with students and with key aspects of mathematical content cognitively challenging mathematics activities that are built around samples of authentic classroom practice and facilitation chapters to help professional developers teach the cases including specific guidelines for facilitating discussions and suggestions for connecting the ideas presented in the cases to a teacher s own practice As a complete set this resource provides a basis on which to build a comprehensive professional development program to improve mathematics instruction and student learning The Case for STEM Education Rodger W. Bybee,2013 If you are interested in STEM education policies programs or practices or you work on STEM in some capacity at any level The case for STEM education will prove to be valuable reading Author Rodger W Bybee has written this book to inspire individuals in leadership roles to better understand and take action on STEM initiatives The book s 10 chapters accomplish several tasks Put STEM in context by outlining the challenges facing STEM education drawing lessons from the Sputnik moment of the 1950s and 1960s and contrasting contemporary STEM with other education reforms Explore appropriate roles for the federal government as well as states districts and individual schools Offer several ideas and recommendations you can use to develop action plans for STEM With an emphasis on both thinking and acting The case for STEM education is a must read for leaders at all levels national and state policy makers state level educators responsible for STEM initiatives college and university faculty who educate future STEM teachers local administrators who make decisions about district and school programs and teachers who represent STEM disciplines Back cover **The Reality of Change**,2000

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