

# ELEMENTARY SCIENCE TEACHER EDUCATION

International Perspectives on Contemporary Issues and Practice



Edited by  
Ken Appleton

**ASTE**

Co-Published with the Association For Science Teacher Education

# Elementary Science Teacher Education International Perspectives On Contemporary Issues And Practice

**Jack Rhoton**



## **Elementary Science Teacher Education International Perspectives On Contemporary Issues And Practice:**

Elementary Science Teacher Education Ken Appleton, 2013-12-16 Co Published with the Association For Science Teacher Education Reflecting recent policy and standards initiatives emerging research agendas and key innovations this volume provides a contemporary overview of important developments and issues that have that have in recent years shaped elementary science education pre service courses and professional development and practices that are shaping future directions in the field Contributors from several countries who are actively engaged in research and design in elementary science education address Conceptual issues which impinge on contemporary science teacher education Intersections of content pedagogy and practice and Professional development as a contextualized practice *Elementary Science Teacher Education International Perspectives on Contemporary Issues and Practice* offers a clear picture of the current state of the field and directions for the future to the benefit of elementary science teacher educators aspiring teacher educators school policy makers other professionals involved in science education and ultimately the millions of elementary school children who will gain from improved practice

**Elementary Science Teacher Education** ,2006 *Elementary Science Teacher Education* Ken Appleton, 2013-12-16 Co Published with the Association For Science Teacher Education Reflecting recent policy and standards initiatives emerging research agendas and key innovations this volume provides a contemporary overview of important developments and issues that have that have in recent years shaped elementary science education pre service courses and professional development and practices that are shaping future directions in the field Contributors from several countries who are actively engaged in research and design in elementary science education address Conceptual issues which impinge on contemporary science teacher education Intersections of content pedagogy and practice and Professional development as a contextualized practice *Elementary Science Teacher Education International Perspectives on Contemporary Issues and Practice* offers a clear picture of the current state of the field and directions for the future to the benefit of elementary science teacher educators aspiring teacher educators school policy makers other professionals involved in science education and ultimately the millions of elementary school children who will gain from improved practice

**Sensemaking in Elementary Science** Elizabeth A. Davis, Carla Zembal-Saul, Sylvie M. Kademian, 2019-10-16 Grounded in empirical research this book offers concrete pathways to direct attention towards elementary science teaching that privileges sensemaking rather than isolated activities and vocabulary Outlining a clear vision for this shift using research backed tools pedagogies and practices to support teacher learning and development this edited volume reveals how teachers can best engage in teaching that supports meaningful learning and understanding in elementary science classrooms Divided into three sections this book demonstrates the skills knowledge bases and research driven practices necessary to make a fundamental shift towards a focus on students ideas and reasoning and covers topics such as An introduction to sensemaking in elementary science Positioning students at the center of sensemaking Planning and enacting investigation based science

discussions Designing a practice based elementary teacher education program Reflections on science teacher education and professional development for reform based elementary science In line with current reform efforts including the Next Generation Science Standards NGSS Sensemaking in Elementary Science is the perfect resource for graduate students and researchers in science education elementary education teacher education and STEM education looking to explore effective practice approaches and development within the elementary science classroom Navigating Elementary Science Teaching and Learning Sophia Jeong,Lynn A. Bryan,Deborah J. Tippins,Chelsea M. Sexton,2023-09-26 This book is a resource for both prospective and practicing elementary teachers as they learn to teach science in ways which foster the development of a community of science learners with multiple perspectives and diverse approaches to problem solving It includes cases that feature dilemmas embedded in rich narrative stories which characterize the lives of teachers of science and by extension their students and serve as tools for discussion critique and reflective practice The introduction to the book explores changing contexts for elementary science teaching and learning and describes how case based pedagogy can be used as a tool for both instruction and research Each subsequent section of the book includes cases that are organized around topics such as contemporary approaches to teaching elementary science new roles for technology and the creation of inclusive learning environments for all students in elementary science Each case is followed by reflective commentaries and concludes with questions for reflection and discussion Teachers will benefit from these cases as they explore the complexities and ambiguities of elementary science teaching and learning in today s classrooms Contemporary Australian Primary Science Teacher Education Angela Fitzgerald,Kimberley Pressick-Kilborn,Reece Mills,Linda Pfeiffer,James Deehan,2024-09-06 This book provides an evidence based response to how classroom readiness translates into the preparation of future teachers of science It juxtaposes contemporary understanding of programming and practices in initial teacher education in an Australian context against international narratives Through this this book shifts the understanding of primary science education from a deficit model to one that critically examines challenges and contest what is happening in this space and why It proposes problems of practice in primary science teacher education and then draws on these provocations to provide insights into possible solutions **Handbook of Research on Adult Learning in Higher Education** Okojie, Mabel C.P.O.,Boulder, Tinukwa C.,2020-02-01 In today s globalized world professional fields are continually transforming to keep pace with advancing methods of practice The theory of adult learning specifically is a subject that has seen new innovations and insights with the advancement of online and blended learning Examining new principles and characteristics in adult learning is imperative as emerging technologies are rapidly shifting the standards of higher education The Handbook of Research on Adult Learning in Higher Education is a collection of innovative research on the methods and applications of adult education in residential online and blended course delivery formats This book will focus on the impact that culture globalization and emerging technology currently has on adult education While highlighting topics including andragogical principles

professional development and artificial intelligence this book is ideally designed for teachers program developers instructional designers technologists educational practitioners deans researchers higher education faculty and students seeking current research on new methodologies in adult education

**Studying Science Teacher Identity** Lucy Avraamidou, 2016-04-11 The overarching goal of this book volume is to illuminate how research on science teacher identity has deepened and complicated our understanding of the role of identity in examining teacher learning and development The collective chapters both theoretical and empirical present an array of conceptual underpinnings that have been used to frame science teacher identity document the various methodological approaches that researchers have implemented in order to study science teacher identity within various contexts and offer empirical evidence about science teacher identity development The findings of the studies presented in this volume support the argument that teacher identity is a dynamic multidimensional and comprehensive construct which provides a powerful lens for studying science teacher learning and development for various reasons First it pushes our boundaries by extending our definitions of science teacher learning and development as it proposes new ways of conceptualizing the processes of becoming a science teacher Second it emphasizes the role of the context on science teacher learning and development and pays attention to the experiences that teachers have as members of various communities Third it allows us to examine the impact of various sub identities personal histories emotions and social markers such as ethnicity race and class on science teachers identity development The book aims at making a unique and deeply critical contribution to notions around science teacher identity by proposing fresh theoretical perspectives providing empirical evidence about identity development offering a set of implications for science teacher preparation and recommending directions for future research

**Science in Early Childhood** Coral Campbell, Wendy Jobling, Christine Howitt, 2018-05-08 This third edition has been substantially updated to include current research written by a team of respected science education researchers It complements the Australian Early Years Learning Framework and the Australian Curriculum Science Concepts are brought to life through case studies practical tasks and activity plans

**Issues and Challenges in Science Education Research** Kim Chwee Daniel Tan, Mijung Kim, 2012-04-27 In contemporary society science constitutes a significant part of human life in that it impacts on how people experience and understand the world and themselves The rapid advances in science and technology newly established societal and cultural norms and values and changes in the climate and environment as well as the depletion of natural resources all greatly impact the lives of children and youths and hence their ways of learning viewing the world experiencing phenomena around them and interacting with others These changes challenge science educators to rethink the epistemology and pedagogy in science classrooms today as the practice of science education needs to be proactive and relevant to students and prepare them for life in the present and in the future Featuring contributions from highly experienced and celebrated science educators as well as research perspectives from Europe the USA Asia and Australia this book addresses theoretical and practical examples in science

education that on the one hand plays a key role in our understanding of the world and yet paradoxically now acknowledges a growing number of uncertainties of knowledge about the world. The material is in four sections that cover the learning and teaching of science from science literacy to multiple representations, science teacher education, the use of innovations and new technologies in science teaching and learning, and science learning in informal settings including outdoor environmental learning activities. Acknowledging the issues and challenges in science education, this book hopes to generate collaborative discussions among scholars, researchers, and educators to develop critical and creative ways of science teaching to improve and enrich the lives of our children and youths.

*Student-generated Digital Media in Science Education* Garry Hoban, Wendy Nielsen, Alyce Shepherd, 2015-07-03

This timely and innovative book encourages us to flip the classroom and empower our students to become content creators. Through creating digital media, they will not only improve their communication skills but also gain a deeper understanding of core scientific concepts. This book will inspire science academics and science teacher educators to design learning experiences that allow students to take control of their own learning, to generate media that will stimulate them to engage with, learn about, and become effective communicators of science. Professors Susan Jones and Brian F. Yates, Australian Learning and Teaching Council Discipline Scholars for Science, represents a giant leap forward in our understanding of how digital media can enrich not only the learning of science but also the professional learning of science teachers. Professor Tom Russell, Queen's University Ontario, Canada, this excellent edited collection brings together authors at the forefront of promoting media creation in science by children and young people. New media of all kinds are the most culturally significant forms in the lives of learners, and the work in this book shows how they can move between home and school and provide new contexts for learning, as well as an understanding of key concepts. Dr. John Potter, London Knowledge Lab, Dept of Culture, Communication and Media, University College London, UK.

*Student-generated Digital Media in Science Education* supports secondary school teachers, lecturers in universities, and teacher educators in improving engagement and understanding in science by helping students unleash their enthusiasm for creating media within the science classroom. Written by pioneers who have been developing their ideas in students' media making over the last 10 years, it provides a theoretical background, case studies, and a wide range of assignments and assessment tasks designed to address the vital issue of disengagement amongst science learners. It showcases opportunities for learners to use the tools that they already own to design, make, and explain science content with five digital media forms that build upon each other: podcasts, digital stories, slowmotion video, and blended media. Each chapter provides advice for implementation and evidence of engagement as learners use digital tools to learn science content, develop communication skills, and create science explanations. A student team's music video animation of the Krebs cycle, a podcast on chemical reactions presented as commentary on a boxing match, a wiki page on an entry in the periodic table of elements, and an animation on vitamin D deficiency among hijab-wearing Muslim women are just some of the imaginative assignments.

demonstrated Student generated Digital Media in Science Education illuminates innovative ways to engage science learners with science content using contemporary digital technologies It is a must read text for all educators keen to effectively convey the excitement and wonder of science in the 21st century     *Inquiry as Stance* Marilyn Cochran-Smith, Susan L. Lytle, 2015-04-25 In this long awaited sequel to *Inside Outside Teacher Research and Knowledge* two leaders in the field of practitioner research offer a radically different view of the relationship of knowledge and practice and of the role of practitioners in educational change In their new book the authors put forward the notion of inquiry as stance as a challenge to the current arrangements and outcomes of schools and other educational contexts They call for practitioner researchers in local settings across the United States and around the world to ally their work with others as part of larger social and intellectual movements for social change and social justice Part I is a set of five essays that conceptualize inquiry as a stance and as a transformative theory of action that repositions the collective intellectual capacity of practitioners Part II is a set of eight chapters written by eight differently positioned practitioners who are or were engaged in practitioner research in K 12 schools or teacher education Part III offers a unique format for exploring inquiry as stance in the next generation a readers theatre script that juxtaposes and co mingles 20 practitioners voices in a performance oriented format Together the three parts of the book point to rich possibilities for practitioner inquiry in the next generation Contributors Rebecca Akin Gerald Campano Delvin Dinkins Kelly A Harper Gillian Maimon Gary McPhail Swati Mehta Rob Simon and Diane Waff Cochran Smith and Lytle once again prove themselves to be among the best at melding theory and practice Instead of merely making the case for practitioner inquiry they go the next step to show us exactly what this genre brings to our field rigor relevance and passion The interplay of conceptual clarity and powerful exemplars make this a text we will read well into the next decade Gloria Ladson Billings University of Wisconsin Madison Once again Marilyn Cochran Smith and Susan Lytle point the way to new and hopeful understandings of practitioner research Rather than blame teachers for all that is wrong with education they and their fellow authors remind us that if school reform is to have any chance of fulfilling its stated goal of equal opportunity for all students teachers must have a significant voice in research policy and practice With its focus on social justice and its view of practitioner research as transformative this is a powerful and welcome sequel to their classic *Inside Outside* Sonia Nieto Professor Emerita University of Massachusetts Amherst *Inquiry as Stance* should be a blockbuster This brilliant sequel re calibrates relationships between practitioner inquiry and social justice Carole Edelsky Professor Emerita Arizona State University This optimistic and generous book is sure to become a central reference for teacher researchers in K 16 schools and their colleagues and supporters throughout the system Elyse Eidman Aadahl Director National Programs and Site Development National Writing Project University of California Berkeley This view of the intellectual and personal work of teaching is a major counter to the contemporary emphasis on testing and packaged curricula Cynthia Ballenger reading specialist Cambridge Public Schools Once again Cochran Smith Lytle and their

colleagues bring us an invaluable book on the enormous possibilities of practitioner research Luis C Moll College of Education University of Arizona

*Looking to the Future* Derek Hodson, 2011-10-25 In advocating an action oriented and issues based curriculum this book takes the position that a major but shamefully neglected goal of science and technology education is to equip students with the knowledge skills attitudes and values to confront the complex and often ill defined socioscientific issues they encounter in daily life as citizens in an increasingly technology dominated world carefully critically confidently and responsibly In outlining proposals for addressing socioscientific issues through a curriculum organized in terms of four increasingly sophisticated levels of consideration the author adopts a highly critical and politicized stance towards the norms and values that underpin both scientific and technological development and contemporary scientific engineering and medical practice criticizes mainstream STS and STSE education for adopting a superficial politically naive and hence educationally ineffective approach to consideration of socioscientific issues takes the view that environmental problems are social problems occasioned by the values that underpin the ways in which we choose to live and urges teachers to encourage students to reach their own views through debate and argument about where they stand on major socioscientific issues including the moral ethical issues they often raise More controversially the author argues that if students are to become responsible and politically active citizens the curriculum needs to provide opportunities for them to experience and learn from sociopolitical action The relative merits of direct and indirect action are addressed notions of learning about action learning through action and learning from action are developed and a case is made for compiling a user friendly database reflecting on both successful and less successful action oriented curriculum initiatives Finally the book considers some of the important teacher education issues raised by this radically new approach to teaching and learning science and technology The book is intended primarily for teachers and student teachers of science technology and environmental education graduate students and researchers in education teacher educators curriculum developers and those responsible for educational policy The author is Emeritus Professor of Science Education at the Ontario Institute for Studies in Education University of Toronto Adjunct Professor of Science Education at the University of Auckland and Visiting Professor of Science Education at the University of Hong Kong His research interests include considerations in the history philosophy and sociology of science and their implications for science and technology education STSE education and the politicization of both students and teachers science curriculum history multicultural and antiracist education and teacher education via action research

**Reframing Science Teaching and Learning** David Stroupe, 2017-02-03 Responding to recent reform efforts such as the Next Generation Science Standards which call for students to learn science practices this book proposes a conceptual reframing of the roles of teachers and students in formal and informal science learning settings Inviting the field to examine the state of science practice it provides concrete examples of how students supported by the actions of educators take on new roles shifting from passive recipients of information to active participants in conceptual



social epistemic and material features of science work Each chapter provides an examination of how and why science practice evolves in learning communities in which students and teachers negotiate disciplinary work an analysis of how specific pedagogical and social actions taken by someone with authority a teacher or other educator provides opportunities for students to shape science practices a set of concrete recommendations for working with young students in formal and informal learning settings and a set of suggestions and questions to catalyze future research about and the evolving relationships between educators students and science practices in the field of science education Showing how and why the conceptual ideas presented are important and providing specific actionable suggestions for teachers and other educators for their daily work this book includes both elementary and secondary learning sites *Designing and Teaching the Elementary Science Methods Course* Sandra Abell,Ken Appleton,Deborah Hanuscin,2010-02-25 What do aspiring and practicing elementary science teacher education faculty need to know as they plan and carry out instruction for future elementary science teachers This scholarly and practical guide for science teacher educators outlines the theory principles and strategies needed and provides classroom examples anchored to those principles The theoretical and empirical foundations are supported by scholarship in the field and the practical examples are derived from activities lessons and units field tested in the authors elementary science methods courses *Designing and Teaching the Elementary Science Methods Course* is grounded in the theoretical framework of pedagogical content knowledge PCK which describes how teachers transform subject matter knowledge into viable instruction in their discipline Chapters on science methods students as learners the science methods course curriculum instructional strategies methods course assessment and the field experience help readers develop their PCK for teaching prospective elementary science teachers Activities that Work and Tools for Teaching the Methods Course provide useful examples for putting this knowledge into action in the elementary science methods course

**New Trends in Special Education** Prof. Dr. Esra ÖMEROĞLU,PhD. Rıdvan KARABULUT,2020-12-29 *A Study on Professional Development of Teachers of English as a Foreign Language in Institutions of Higher Education in Western China* Yuhong Jiang,2016-11-17 This book offers a comprehensive up to date review of the recent professional developments of teachers of English in the western region of China in the context of English language teaching reform and teacher education reform It discusses a wealth of theories frameworks qualitative case studies and quantitative investigations while also covering a range of key practices that are indispensable It equips readers with an in depth understanding of the impact of the current curriculum reform on the promotion of teachers cognition emotions attitudes and awareness of their self development as well as teachers corresponding efforts to update their educational concepts reassess their teacher roles enhance their teaching skills and implement new approaches to their professional development It is a valuable resource for anyone pursuing research in this field as well as in service teachers teacher educators and education administrators And as it offers practical help for the potential difficulties and challenges they might encounter it is also a must read for the student

teachers of English      *Handbook of Research on Science Education* Sandra K. Abell, Norman G. Lederman, 2013-03-07 This state of the art research Handbook provides a comprehensive coherent current synthesis of the empirical and theoretical research concerning teaching and learning in science and lays down a foundation upon which future research can be built The contributors all leading experts in their research areas represent the international and gender diversity that exists in the science education research community As a whole the Handbook of Research on Science Education demonstrates that science education is alive and well and illustrates its vitality It is an essential resource for the entire science education community including veteran and emerging researchers university faculty graduate students practitioners in the schools and science education professionals outside of universities The National Association for Research in Science Teaching NARST endorses the Handbook of Research on Science Education as an important and valuable synthesis of the current knowledge in the field of science education by leading individuals in the field For more information on NARST please visit <http://www.narst.org>      **Science Education Leadership: Best Practices for the New Century** Jack Rhoton, 2010      *Teacher Research* Deborah Roberts, Claire Bove, 2007 If you re a science teacher this collection will show you paths that others have found to deepen their understanding of the philosophy and practice of teacher research If you re a science teacher educator it will give you examples about the many ways in service teachers can conduct inquiry Either way Teacher Research provides a memorable passage into learning and growing

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