

Teaching and Learning Science as Argument

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Received 31 August 2009; revised 18 November 2009; accepted 22 November 2009

DOI 10.1002/sce.20395

Published online 26 March 2010 in Wiley Online Library (wileyonlinelibrary.com).

ABSTRACT: The concept of science as argument, and the view that engaging in scientific argumentation should play a key role in science education, has become widely endorsed. The case is made here that this objective will be enhanced by broad understanding of the nature of argument skills and their directions and patterns of development. A line of research directed to this goal is described. © 2010 Wiley Periodicals, Inc. *Sci Ed* 94:810–824, 2010

INTRODUCTION

A conception of science as argument has come to be widely advocated as a frame for science education (Berland & Reiser, 2009; Bricker & Bell, 2009; Driver, Newton, & Osborne, 2000; Duschl, 2008; Erduran & Jimenez-Aleixandre, 2008; Kelly, Regev, & Prothero, 2008; Kuhn, 1993; Lehrer, Schauble, & Lucas, 2008; Lehrer, Schauble, & Petrosino, 2001; Naylor, Keogh, & Downing, 2007; Nussbaum, Sinatra, & Poliquin, 2008; Osborne, Erduran, & Simon, 2004; Sampson & Clark, 2008; Simon, Erduran, & Osborne, 2006; Zohar & Nemet, 2002). Bricker and Bell (2009) identify argumentation as a “core epistemic practice” of science and accordingly claim that the goal of science education must be not only mastery of scientific concepts but also learning how to engage in scientific discourse. If so, the goal will be attainable only to the extent that we have a well articulated and empirically supported model that identifies the essential characteristics of such discourse and the skills that are needed to partake in it. The work described in this article has had as its goal the establishment of such a model.

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Teaching And Learning Argument

Sibel Erduran



Teaching And Learning Argument:

Teaching and Learning Argument Richard Andrews,1995 This text advocates bringing the teaching and learning of argument to the centre of the curriculum based on the understanding that argument is essential to the development of thinking skills Its scope is broad analyzing the function of argument from early childhood education to university study

Teaching Argument Writing, Grades 6-12 George Hillocks Jr,2011 Offers teaching strategies and resources to instruct sixth through twelfth graders on how to prepare and write strong arguments and evaluate the arguments of others providing step by step guidance on arguments of fact judgment and policy and including advice to help students understand how judgments get made in the real world how to develop and support criteria for an argument and related topics

Argumentation Strategies in the Classroom Chrysti Rapanta,2019-06-01 Argumentation as a teaching and learning method in the K 12 curriculum has received increasing attention across the globe The reason for this is simple argumentation helps students develop necessary critical thinking skills However teaching this method is not as straightforward as it may appear Placing the classroom at the centre of the investigation this book seeks to throw light onto argumentation as a teaching practice by asking What does it take to teach as argument What does it mean to be argumentative teachers And how can we create classroom environments that will help and encourage young people to develop their argument skills Based on first hand experience and extensive research this volume guides the reader through argumentation with the focus placed on the relationship between this teaching method and effective learning and the need to investigate the role of teachers in encouraging argumentation in the classroom Although there are a considerable number of tools and techniques that promote argumentation in the K 12 classroom many teachers struggle to successfully implement them in the classroom Aimed at addressing this issue this book endeavours to instruct teachers on how to apply argumentation effectively in their day to day classes and to clarify argumentation as a teaching and learning strategy As an important contribution to the field of argumentation and education this book will be of interest to researchers post graduate students and secondary school teachers alike

Argumentation in Higher Education Richard Andrews,2009-09-10 Argumentation in Higher Education offers professors lecturers and researchers informative guidance for teaching effective argumentation skills to their undergraduate and graduate students This professional guide aims to make the complex topic of argumentation open and transparent Grounded in empirical research and theory but with student voices heard strongly throughout this book fills the gap of argumentation instruction for the undergraduate and graduate level Written to enlighten even the most experienced professor this text contributes to a better understanding of the demands of speaking writing and visual argumentation in higher education and will undoubtedly inform and enhance course design The book argues for a more explicit treatment of argument the product and argumentation the process in higher education so that the ground rules of the academic discipline in question are made clear Each chapter concludes with practical exercises for staff development use Topics discussed

include The importance of argument The current state of argumentation in higher education Generic skills in argumentation The balance between generic and discipline specific skills Information communication technologies and visual argumentation How can we best teach argumentation so that students feel fully empowered in their academic composition Professors new and experienced lecturers researchers professional developers and writing coaches worldwide grappling with this question will find this accessible text to be an extremely valuable resource Richard Andrews is Professor in English at the Institute of Education University of London

Teaching and Learning Argumentative Writing in High School English Language Arts Classrooms George Newell, David Bloome, Alan Hirvela, 2015-06-05 Focused on the teaching and learning argumentative writing in grades 9-12 this important contribution to literacy education research and classroom practice offers a new perspective a set of principled practices and case studies of excellent teaching The case studies illustrate teaching and learning argumentative writing as the construction of knowledge and new understandings about experiences ideas and texts Six themes key to teaching argumentative writing as a thoughtful multi-levelled practice for deep learning and expression are presented teaching and learning argumentative writing as social practice teachers epistemological beliefs about argumentative writing variations in instructional chains instructional conversations in support of argumentative writing as deep learning and appreciation of multiple perspectives contextualized analysis of argumentative writing and the teaching and learning of argumentative writing and the construction of rationalities

[The Importance of Argument in Education](#) Richard Andrews, 2009 Examines argument and the process of argumentation in relation to primary secondary and tertiary education Considers the importance of argument in research and research training

Argumentation in Science Education Sibel Erduran, María Pilar Jiménez-Aleixandre, 2007-12-14 Educational researchers are bound to see this as a timely work It brings together the work of leading experts in argumentation in science education It presents research combining theoretical and empirical perspectives relevant for secondary science classrooms Since the 1990s argumentation studies have increased at a rapid pace from stray papers to a wealth of research exploring ever more sophisticated issues It is this fact that makes this volume so crucial

AI in Language Teaching, Learning, and Assessment Pan, Fang, 2024-02-12 The introduction of Artificial Intelligence AI has ignited a fervent academic discourse AI's role is as both a powerful ally and a potential adversary in education For instance ChatGPT is a generative AI which mimics human conversation with impressive precision Its capabilities span the educational spectrum from answering questions and generating essays to composing music and coding Yet as with any innovation its advent has sparked a spirited academic dialogue AI in Language Teaching Learning and Assessment seeks to address these concerns with rigor and thoughtfulness It explores the undeniable drawbacks of AI in language education and offers strategic insights into their prevention It scrutinizes the resources and safeguards required to ensure the ethical and secure integration of AI in academic settings This book lays out the multifaceted benefits of incorporating AI into language teaching learning and assessment Its chapters dissect the transformative impact of AI on

pedagogy teaching materials assessment methodologies applied linguistics and the broader landscape of language education development This book is a valuable resource for language learners educators researchers and scholars alike It beckons to those who are keen on exploring and implementing AI in education as well as AI developers and experts seeking to bridge the chasm between technology and language education

Cognitive Science in Education and Alternative Teaching

Strategies Boris Aberšek,2017-06-20 Cognitive science deals with such questions as How do we think and How do we learn memorize dream It tackles the subject of human mentality by connecting discoveries from a range of disciplines that shed light on cognitive occurrences and the learning process Cognitive science unites the fields of neuroscience psychology philosophy linguistics artificial intelligence and social sciences This book aimed mostly at teachers will provoke cognitive dissonance and intellectual unease as it explores cognitive theories and allows teachers to update and internalise their in head theories embedded from their own school years In order for this to happen this volume provides information on new experiences of alternative teaching practices Creating conditions for gaining these teaching experiences is the primary function and fundamental mission of politics in the field of education

Dialogic Literary Argumentation in High School Language Arts Classrooms David Bloome,George Newell,Alan R Hirvela,Tzu-Jung Lin,2019-09-23 Written by leaders in the field of literacy and language arts Education this volume defines Dialogic Literary Argumentation outlines its key principles and provides in depth analysis of classroom social practices and teacher student interactions to illustrate the possibilities of a social perspective for a new vision of teaching reading and understanding literature Dialogic Literary Argumentation builds on the idea of arguing to learn to engage teachers and students in using literature to explore what it means to be human situated in the world at a particular time and place Dialogic Literary Argumentation fosters deep and complex understandings of literature by engaging students in dialogical social practices that foster dialectical spaces intertextuality and an unpacking of taken for granted assumptions about rationality and personhood Dialogic Literary Argumentation offers new ways to engage in argumentation aligned with new ways to read literature in the high school classroom Offering theory and analysis to shape the future use of literature in secondary classrooms this text will be great interest to researchers graduate and postgraduate students academics and libraries in the fields of English and Language Arts Education Teacher Education Literacy Studies Writing and Composition

Encyclopedia of Language and Education Leo van Lier,P. Corson,2013-11-01 ENCYCLOPEDIA OF LANGUAGE AND EDUCATION This is one of eight volumes of the Encyclopedia of Language and Education published by Kluwer Academic The publication of this work signals the maturity of the field of language and education as an international and interdisciplinary field of significance and cohesion These volumes confirm that language and education is much more than the preserve of any single discipline In designing these volumes we have tried to recognise the diversity of the field in our selection of contributors and in our choice of topics The contributors come from every continent and from more than 40 countries Their reviews discuss language and education

issues affecting every country in the world We have also tried to recognise the diverse interdisciplinary nature of language and education in the selection of the editorial personnel themselves The major academic interests of the volume editors confirm this As principal volume editor for Volume 1 Ruth Wodak has interests in critical linguistics sociology of language and language policy For Volume 2 Viv Edwards has interests in policy and practice in multilingual classrooms and the sociology of language For Volume 3 Bronwyn Davies has interests in the social psychology of language the sociology of language and interdisciplinary studies For Volume 4 Richard Tucker has interests in language theory applied linguistics and the implementation and evaluation of innovative language education programs

Critical Thinking in Science Education and Teacher Training Antonio Joaquín Franco-Mariscal, 2024-12-29 This edited volume explores the challenge of fostering critical thinking CT skills in science education presenting the ENCIC CT model as a framework for development Named after the Science Education and Competences Enseñanza de las Ciencias y Competencias ENCIC research group at the University of Malaga Spain this model emphasizes cultivating CT through socio scientific issues and daily life problems It includes three key domains knowledge skills and dispositions each encompassing various dimensions addressed through scientific practices like argumentation inquiry and modeling Teaching strategies such as gamification role playing micro debates augmented reality controversy mapping and digital storytelling are highlighted Spanning theoretical perspectives and practical experiences from early childhood to higher education this book consolidates findings from the Spanish R D project Citizens with Critical Thinking A Challenge for Teachers in Science Education It is an essential resource for educators researchers and practitioners offering valuable insights and practical applications for all educational levels

Developing Writers of Argument Michael W. Smith, Jon-Philip Imbrenda, 2017-12-22 Forming effective arguments is essential to students success in academics and in life This book s engaging lessons offer an innovative approach to teaching this critical and transferable skill

The On-Your-Feet Guide to Teaching Argument Writing Michael W. Smith, Jon-Philip Imbrenda, 2019-07-25

Dialogue, Argumentation and Education Baruch B. Schwarz, Michael J. Baker, 2016-12-22 New pedagogical visions and technological developments have brought argumentation to the fore of educational practice Whereas students previously learned to argue they now argue to learn collaborative argumentation based learning has become a popular and valuable pedagogical technique across a variety of tasks and disciplines Researchers have explored the conditions under which arguing to learn is successful have described some of its learning potentials such as for conceptual change and reflexive learning and have developed Internet based tools to support such learning However the further advancement of this field presently faces several problems which the present book addresses Three dimensions of analysis historical theoretical and empirical are integrated throughout the book Given the nature of its object of study dialogue interaction argumentation learning and teaching the book is resolutely multidisciplinary drawing on research on learning in educational and psychological sciences as well as on philosophical and linguistic theories of dialogue and argumentation

Higher Education Learning

Methodologies and Technologies Online Giovanni Fulantelli, Daniel Burgos, Gabriella Casalino, Marta Cimitile, Giosuè Lo Bosco, Davide Taibi, 2023-04-30 This book constitutes the thoroughly refereed post conference proceedings of the 4th International Conference on Higher Education Learning Methodologies and Technologies Online HELMeTO 2022 held in Palermo Italy in September 2022 The 59 revised papers presented were carefully reviewed and selected from a total of 126 submissions The papers present recent research on challenges of implementing emerging technology solution for online online learning pedagogical frameworks online learning technologies in practice online learning strategies and resources etc

Argumentation and Education Nathalie Muller Mirza, Anne-Nelly Perret-Clermont, 2009-06-19 During the last decade argumentation has attracted growing attention as a means to elicit processes linguistic logical dialogical psychological etc that can sustain or provoke reasoning and learning Constituting an important dimension of daily life and of professional activities argumentation plays a special role in democracies and is at the heart of philosophical reasoning and scientific inquiry Argumentation as such requires specific intellectual and social skills Hence argumentation will have an increasing importance in education both because it is a critical competence that has to be learned and because argumentation can be used to foster learning in philosophy history sciences and in many other domains Argumentation and Education answers these and other questions by providing both theoretical backgrounds in psychology education and theory of argumentation and concrete examples of experiments and results in school contexts in a range of domains It reports on existing innovative practices in education settings at various levels

Good Thinking Erik Palmer, 2023-10-10 Our daily communication involves argumentation and reasoning but how well do we prepare students for these tasks Are they able to persuade others make solid purchasing decisions or analyze the messages in the media In his new book *Good Thinking Teaching Argument Persuasion and Reasoning* Erik Palmer shows teachers of all subject matters how to transform the activities they already use into openings for improving student thinking He demonstrates how to critically evaluate a point of view understand rhetorical devices apply logic and build an effective argument written or oral Blending theory with practice Palmer shares a wide range of classroom tested lessons including How to understand argument in paintings and images Addressing ad hominem attacks using a traveling debate Creating a class comedy club where students write syllogisms and analyze character and plot development Teaching logic through a class Booger Patrol Palmer explains complex concepts in simple practical language that gives teachers a deft understanding of the principles of good arguments proper use of evidence persuasive techniques and rhetorical tricks He reveals how all students not just those in advanced classes can begin developing sophisticated reasoning skills that will improve their oral and written communications both in and outside of the classroom

The Argument Writing Toolkit Sean Runday, 2015-07-16 In order for students to write effective arguments they need to read good arguments In this practical book you ll find out how to use mentor texts to make writing instruction more meaningful authentic and successful Author Sean Runday demonstrates how you can teach middle school students to analyze

the qualities of effective arguments and then help them think of those qualities as tools to improve their own writing You ll learn how to Introduce high interest topics to students to get them interested and engaged in argument writing Teach students to look at multiple sides of an issue and critically evaluate evidence to construct informed defensible arguments Make argument writing an interactive student driven exercise in which students pursue their own writing projects Use mentor texts to help students learn the core concepts of argument writing and apply those skills across the curriculum The book is filled with examples and templates you can bring back to the classroom immediately as well as an annotated bibliography which links the concepts in this book to the corresponding Common Core State Standards Blank templates are also available as printable eResources on our website <http://www.routledge.com/9781138924390>

Argumentation in Chemistry Education Sibel Erduran, 2019-02-12 Many studies have highlighted the importance of discourse in scientific understanding Argumentation is a form of scientific discourse that plays a central role in the building of explanations models and theories Scientists use arguments to relate the evidence that they select from their investigations and to justify the claims that they make about their observations The implication is that argumentation is a scientific habit of mind that needs to be appropriated by students and explicitly taught through suitable instruction Edited by Sibel Erduran an internationally recognised expert in chemistry education this book brings together leading researchers to draw attention to research policy and practice around the inclusion of argumentation in chemistry education Split into three sections Research on Argumentation in Chemistry Education Resources and Strategies on Argumentation in Chemistry Education and Argumentation in Context this book blends practical resources and strategies with research based evidence The book contains state of the art research and offers educators a balanced perspective on the theory and practice of argumentation in chemistry education

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