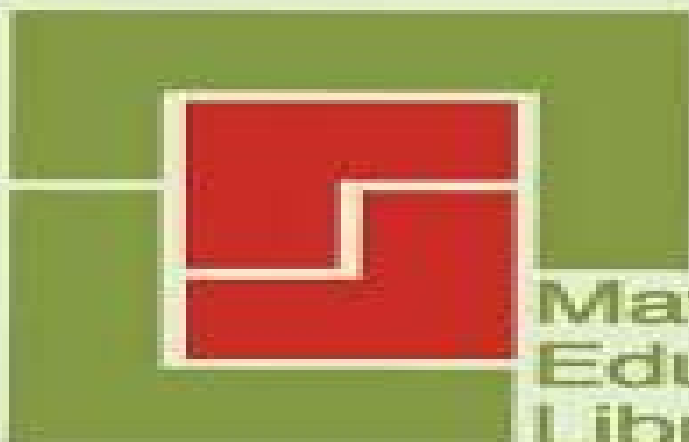


The Politics of Mathematics Education

Stieg Mellin-Olsen



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Politics Of Mathematics Education

Mark Wolfmeyer



Politics Of Mathematics Education:

The Politics of Mathematics Education Stieg Mellin-Olsen, 1987-03-31 The development of knowledge is never easy One doesn't want to go over old ground again but yet one needs to establish the new in the context of the old One is also anxious about the novelty of the ideas are they new enough or are they too way out to be acceptable In some fields perhaps these criteria are less important than in others In education I sense that novelty is a tricky criterion varying in value from society to society In some societies the new ideas have to justify their adoption in the face to the old tried and tested ideas Better the devil you know than the devil you don't In other societies the old ways have to justify their continuation in the face of the new promising and exciting ideas I can't find a good proverb for this Perhaps proverbs are all about preserving the past In any case some people will argue there is nothing new to be said about education anyway the problems are the same and it is only the context which changes Mellin Olsen develops the reader's knowledge through this book in ways that are both novel and challenging Their novelty is not in question judging by reactions to them which vary from they have nothing to do with mathematics education to they concern everything that is done in mathematics education *Opening the Cage* Ole Skovsmose, Brian Greer, 2012-09-05 The picture on the front of this book is an illustration for Totakahini The tale of the parrot by Rabindranath Tagore in which he satirized education as a magnificent golden cage Opening the cage addresses mathematics education as a complex socio political phenomenon exploring the vast terrain that spans critique and politics Opening the cage includes contributions from educators writing critically about mathematics education in diverse contexts They demonstrate that mathematics education is politics they investigate borderland positions they address the nexus of mathematics education and power and they explore educational possibilities Mathematics education is not a free enterprise It is carried on behind bars created by economic political and social demands This cage might not be as magnificent as that in Tagore's fable But it is strong Opening the cage is a critical and political challenge and we may be surprised to see what emerges **The Politics of Mathematics Education** Stieg Mellin-Olsen, 2006-04-11 The development of knowledge is never easy One doesn't want to go over old ground again but yet one needs to establish the new in the context of the old One is also anxious about the novelty of the ideas are they new enough or are they too way out to be acceptable In some fields perhaps these criteria are less important than in others In education I sense that novelty is a tricky criterion varying in value from society to society In some societies the new ideas have to justify their adoption in the face to the old tried and tested ideas Better the devil you know than the devil you don't In other societies the old ways have to justify their continuation in the face of the new promising and exciting ideas I can't find a good proverb for this Perhaps proverbs are all about preserving the past In any case some people will argue there is nothing new to be said about education anyway the problems are the same and it is only the context which changes Mellin Olsen develops the reader's knowledge through this book in ways that are both novel and challenging Their novelty is not in question judging by reactions to them which vary from they

have nothing to do with mathematics education to they concern everything that is done in mathematics education *The New Math* Christopher J. Phillips, 2014-12-04 An era of sweeping cultural change in America the postwar years saw the rise of beatniks and hippies the birth of feminism and the release of the first video game It was also the era of new math Introduced to US schools in the late 1950s and 1960s the new math was a curricular answer to Cold War fears of American intellectual inadequacy In the age of Sputnik and increasingly sophisticated technological systems and machines math class came to be viewed as a crucial component of the education of intelligent virtuous citizens who would be able to compete on a global scale In this history Christopher J Phillips examines the rise and fall of the new math as a marker of the period s political and social ferment Neither the new math curriculum designers nor its diverse legions of supporters concentrated on whether the new math would improve students calculation ability Rather they felt the new math would train children to think in the right way instilling in students a set of mental habits that might better prepare them to be citizens of modern society a world of complex challenges rapid technological change and unforeseeable futures While Phillips grounds his argument in shifting perceptions of intellectual discipline and the underlying nature of mathematical knowledge he also touches on long standing debates over the place and relevance of mathematics in liberal education And in so doing he explores the essence of what it means to be an intelligent American by the numbers Social and Political Dimensions of Mathematics Education Murad Jurdak, Renuka Vithal, Elizabeth de Freitas, Peter Gates, David Kollosche, 2016-04-05 This book examines the current thinking on five critical social and political areas in mathematics education It focuses on material conditions in teaching and learning and details features of social life and their influence on mathematics teaching learning and achievement Following an introduction the first section addresses equitable access and participation in quality mathematics education It explores this issue in different contexts and from different ideological perspectives The second section traces the emergence and development of the notion of activism in mathematics education in theory in the literature in research and in practice The third section then moves on to explore current research on the political forces at work in identity subjectivity and disability within mathematics education showing how emphasis on language and discourse provides information for this research and how new directions are being pursued to address the diverse material conditions that shape learning experiences in mathematics education Economic factors behind mathematics achievement form the topic of section four which examines the political dimensions of mathematics education through the influence of national and global economic structures The final section addresses distribution of power and cultural regimes of truth based on the premise that although often deemed apolitical mathematics and mathematics education are highly political institutions in our society The book concludes with a summary and recommendations for the future *Researching the Socio-Political Dimensions of Mathematics Education* Paola Valero, Robyn Zevenbergen, 2006-04-11 Mathematics education research as a discipline is situated at the confluence of an array of diffuse seemingly incommensurable and radically divergent discourses Research claims that have grown out of

mathematics education are wide ranging and antagonistic rather than circumscribed by hidebound disciplinary frames While there has never been a unified totalising discipline of knowledge labelled mathematics education research and while it has always been a contested terrain it is fair to say that the master paradigm out of which this field has been generated has been that of cognitive psychology Mainstream mathematics education knowledges refracting the master discourse of psychology whereby cognition serves as the central privileged and defining concept clearly delimits its possibilities for serving as a social tool of democratic transformation The central point of departure of this new collection is that mathematics education research is insufficiently univocal to support the type of uncompromising interpretation that cognitive psychologists would bring to it The hallmark contribution of this pathbreaking volume edited by Paola Valero and Robyn Zevenbergen is the paradigmatic shift the authors have effected in the field of mathematics education research taking up a position at the faultline of socio cultural analysis and critical pedagogy Researching the Socio-Political Dimensions of Mathematics Education Paola Valero,Robyn Zevenbergen,2004-08-25 Mathematics education research as a discipline is situated at the confluence of an array of diffuse seemingly incommensurable and radically divergent discourses Research claims that have grown out of mathematics education are wide ranging and antagonistic rather than circumscribed by hidebound disciplinary frames While there has never been a unified totalising discipline of knowledge labelled mathematics education research and while it has always been a contested terrain it is fair to say that the master paradigm out of which this field has been generated has been that of cognitive psychology Mainstream mathematics education knowledges refracting the master discourse of psychology whereby cognition serves as the central privileged and defining concept clearly delimits its possibilities for serving as a social tool of democratic transformation The central point of departure of this new collection is that mathematics education research is insufficiently univocal to support the type of uncompromising interpretation that cognitive psychologists would bring to it The hallmark contribution of this pathbreaking volume edited by Paola Valero and Robyn Zevenbergen is the paradigmatic shift the authors have effected in the field of mathematics education research taking up a position at the faultline of socio cultural analysis and critical pedagogy Researching the Socio-Political Dimensions of Mathematics Education Paola Valero,Robyn Zevenbergen,2014-01-15 **Troubling Notions of Global Citizenship and Diversity in Mathematics Education** Anna Chronaki,Ayşe Yolcu,2025-03-06 This edited volume explores how mathematics education is re configured in relation to its past present and future when the rhetoric of critical global citizenship education is being applied to diverse local settings Drawing upon diverse theoretical and methodological traditions across the globe including countries in South America Asia Australia and Europe each chapter challenges and eventually troubles the wide circulation of a universal imagery of citizenship based on mathematical competence in not only curriculum school reforms and policy but also in teaching and learning practices Troubling the Euro centric and global notions of citizenship and diversity the book foregrounds local practices in mathematics education to portray a broader picture for the current

problems of equity social justice and democracy The book also engages with critical discussions on how citizens and noncitizen are being fabricated in the context of educational policies and specific mathematical practices First of its kind to trouble what is at stake when mathematics education is framed within the discourses of citizenship globally through challenging and problematising what is understood as normal this book will be of relevance to scholars academics and researchers in the field of sociology of education anthropology of education philosophy of education mathematics education citizenship studies and international and comparative education

The Disorder of Mathematics Education Hauke Straehler-Pohl, Nina Bohlmann, Alexandre Pais, 2016-08-23 Research within a socio political paradigm or turn has been gradually recognized and institutionalized as an important part of mathematics education This book focuses on the neglected problems tensions and contradictions evoked by this process The authors do this by challenging current regimes of truth about mathematics education by identifying how recent technological developments challenge or suspend contemporary conceptions of mathematics education by critiquing the ideological entanglement of mathematics its education and schooling with capitalism by self reflective analyses of researchers impacts on shaping what is and can be perceived as the practice of mathematics education research and by confronting main stream mathematics education with socio political contexts that are usually neglected In this way mathematical rationality becomes contextualized within contemporary society where it reproduces itself through technologies social practices media and other spheres of social life

Critical Mathematics Education Bülent Avci, 2018-11-01 Drawing on rich ethnographic data Critical Mathematics Education Can Democratic Mathematics Education Survive under Neoliberal Regime responds to ongoing discussions on the standardization in curriculum and reconceptualizes Critical Mathematics Education CME by arguing that despite obstructive implications of market driven changes in education a practice of critical mathematics education to promote critical citizenship could be implemented through open ended projects that resonate with an inquiry based collaborative learning and dialogic pedagogy In doing so neoliberal hegemony in education can be countered The book also identifies certain limitations of critical mathematical education and suggests pedagogic and curricular strategies for critical educators to cope with these obstacles

Second International Handbook of Mathematics Education Alan Bishop, 2003-06-30 This handbook should be a useful resource for students researchers teacher educators and curriculum policy makers in the field of mathematics education It is a follow up to the first handbook which laid down the base line in many areas of the field of mathematics education

Toward Equity and Social Justice in Mathematics Education Tonya Gau Bartell, 2018-08-14 This critical volume responds to the enduring challenge in mathematics education of addressing the needs of marginalized students in school mathematics and stems from the 2015 Annual Meeting of the North American Group of the Psychology of Mathematics Education PME NA This timely analysis brings greater clarity and support to such challenges by narrowing in on four foci theoretical and political perspectives toward equity and justice in mathematics education identifying and connecting to family and

community funds of knowledge student learning and engagement in preK 12 mathematics classrooms and supporting teachers in addressing the needs of marginalized learners Each of these areas examines how race class culture power justice and mathematics teaching and learning intersect in mathematics education to sustain or disrupt inequities and include contributions from scholars writing about mathematics education in diverse contexts Included in the coverage Disrupting policies and reforms to address the needs of marginalized learners A socio spatial framework for urban mathematics education Linking literature on allywork to the work of mathematics teacher educators Transnational families mathematical funds of knowledge Multilingual and technological contexts for supporting learners mathematical discourse Preservice teachers strategies for teaching mathematics with English learners Toward Equity and Social Justice in Mathematics Education is of significant interest to mathematics teacher educators and mathematics education researchers currently addressing the needs of marginalized students in school mathematics It is also relevant to teachers of related disciplines administrators and instructional designers interested in pushing our thinking and work toward equity and justice in mathematics education

ALTERNATIVE FORMS OF KNOWING (IN) MATHEMATICS Swapna

Mukhopadhyay, Wolff-Michael Roth, 2012-12-28 This book grew out of a public lecture series Alternative forms of knowledge construction in mathematics conceived and organized by the first editor and held annually at Portland State University from 2006 Starting from the position that mathematics is a human construction implying that it cannot be separated from its historical cultural social and political contexts the purpose of these lectures was to provide a public intellectual space to interrogate conceptions of mathematics and mathematics education particularly by looking at mathematical practices that are not considered relevant to mainstream mathematics education One of the main thrusts was to contemplate the fundamental question of whose mathematics is to be valorized in a multicultural world a world in which as Paolo Freire said The intellectual activity of those without power is always characterized as non intellectual To date nineteen scholars including the second editor have participated in the series All of the lectures have been streamed for global dissemination at <http://www.media.pdx.edu/dlc/media/events/AFK> Most of the speakers contributed a chapter to this book based either on their original talk or on a related topic The book is divided into four sections dealing with Mathematics and the politics of knowledge Ethnomathematics Learning to see mathematically Mathematics education for social justice

Third International

Handbook of Mathematics Education M.A. (Ken) Clements, Alan Bishop, Christine Keitel-Kreidt, Jeremy Kilpatrick, Frederick Koon-Shing Leung, 2012-11-15 The four sections in this Third International Handbook are concerned with a social political and cultural dimensions in mathematics education b mathematics education as a field of study c technology in the mathematics curriculum and d international perspectives on mathematics education These themes are taken up by 84 internationally recognized scholars based in 26 different nations Each of section is structured on the basis of past present and future aspects The first chapter in a section provides historical perspectives How did we get to where we

are now the middle chapters in a section analyze present day key issues and themes Where are we now and what recent events have been especially significant and the final chapter in a section reflects on policy matters Where are we going and what should we do Readership Teachers mathematics educators ed policy makers mathematicians graduate students undergraduate students Large set of authoritative international authors

In Search of a Pedagogy of Conflict and Dialogue for Mathematics Education Renuka Vithal, 2012-12-06 In Search of a Pedagogy for Conflict and Dialogue for Mathematics Education is of interest to mathematics educators researchers in mathematics education gender social justice equity and democracy in education and practitioners teachers interested in the use of project work in mathematics teaching and learning This book brings together diverse recent developments exploring social cultural political dimensions in mathematics education It builds theoretical ideas from a careful substantial description of practice in the attempt to improve both theory and practice in mathematics education In doing so it interrogates and develops theoretical research tools for mathematics education and simultaneously provides ideas for practice in mathematics classrooms

Math Education for America? Mark Wolfmeyer, 2013-12-04 Math Education for America analyzes math education policy through the social network of individuals and private and public organizations that influence it in the United States The effort to standardize a national mathematics curriculum for public schools in the U S culminated in 2010 when over 40 states adopted the Common Core State Standards for Mathematics Rather than looking at the text of specific policy documents this book complements existing critical reviews of the national math education curriculum by employing a unique social network analysis Breaking new ground in detailing and theorizing the politics of math education Wolfmeyer argues that the private interests of this network are closely tied to a web of interrelated developments human capital education policy debates over traditional and reform pedagogy the assumed content knowledge deficit of math teachers and the proliferation of profit driven educational businesses By establishing the interconnectedness of these interests with the national math education curriculum he shows how the purported goals of math education reform are aligned with the prevailing political agendas of this social network rather than the national interest

Critical Issues in Mathematics Education Philip Clarkson, Norma C. Presmeg, 2008-09-22 Critical Issues in Mathematics Education presents the significant contributions of Professor Alan Bishop within the mathematics education research community Six critical issues each of which have had paramount importance in the development of mathematics education research are reviewed and include a discussion of current developments in each area Teacher decision making spatial visualizing geometry teachers and research cultural social aspects of mathematics education sociopolitical issues and values serve as the basic issues discussed in this examination of mathematics education over the last fifty years during which Professor Bishop has been active in the field A comprehensive discussion of each of these topics is realized by offering the reader a classic research contribution of Professor Bishop s together with commentary and invited chapters from leading experts in the field of mathematics education Critical Issues in Mathematics Education will make an

invaluable contribution to the ongoing reflection of mathematic education researchers worldwide but also to policy makers and teacher educators who wish to understand some of the key issues with which mathematics education has been and still is concerned and the context within which Professor Bishop's key contributions to these research issues were made

Theories of Mathematics Education Bharath Sriraman, Lyn English, 2009-10-13 Advances in Mathematics Education is a new and innovative book series published by Springer that builds on the success and the rich history of ZDM The International Journal on Mathematics Education formerly known as Zentralblatt für Mathematik One characteristic of ZDM since its inception in 1969 has been the publication of themed issues that aim to bring the state of the art on central sub domains within mathematics education The published issues include a rich variety of topics and contributions that continue to be of relevance today The newly established monograph series aims to integrate synthesize and extend papers from previously published themed issues of importance today by orienting these issues towards the future state of the art The main idea is to move the field forward with a book series that looks to the future by building on the past by carefully choosing viable ideas that can fruitfully mutate and inspire the next generations Taking inspiration from Henri Poincaré 1854-1912 who said To create consists precisely in not making useless combinations and in making those which are useful and which are only a small minority

Mathematics Education Mark Wolfmeyer, 2017-01-12 Winner of the AESA 2017 Critics Choice Book Award Mathematics Education offers both undergraduates and starting graduate students in education an introduction to the connections that exist between mathematics and a critical orientation to education This primer shows how concepts like race class gender and language have real effects in the mathematics classroom and prepares current and future mathematics teachers with a more critical math education that increases accessibility for all students By refocusing math learning towards the goals of democracy and social and environmental crises the book also introduces readers to broader contemporary school policy and reform debates and struggles Mark Wolfmeyer shows future and current teachers how critical mathematics education can be put into practice with concrete strategies and examples in both formal and informal educational settings With opportunities for readers to engage in deeper discussion through suggested activities Mathematics Education's pedagogical features include Study Questions for Teachers and Students Text Boxes with Examples of Critical Education in Practice Annotated List of Further Readings Glossary

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