

Journals of Interest - Mathematics and Science Education

May/June/July/August/September 2016

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Feature Articles

Lorraine M. McDonnell and M. Stephen Weatherford

Recognizing the Political in Implementation Research

Educational Researcher May 2016 45: 233-242, first published on May 11, 2016

doi:10.3102/0013189X16649945

Cynthia E. Coburn, Heather C. Hill, and James P. Spillane

Accountability in Policy Design and Implementation: The Common Core State Standards and Implementation Research

Alignment and

Educational

Researcher May 2016 45: 243-251, first published on May 12, 2016

doi:10.3102/0013189X16651080

Reviews/Essays

David Rutkowski

Leslie Rutkowski and

A Call for a More Measured

Approach to Reporting and Interpreting PISA Results

Educational Researcher May 2016 45: 252-257, first published on May 12, 2016

doi:10.3102/0013189X16649961

Briefs

Dickinson, and Brittany C. Cunningham

Jill L. Adelson, Emily R.

Statewide Examination of Reading Achievement: Examining Variability Between Districts, Schools, and Students

A Multigrade, Multiyear

Educational Researcher May 2016 45: 258-262, first published on May 11, 2016

doi:10.3102/0013189X16649960

Morgan S. Polikoff, Tenice Hardaway, Julie A. Marsh, and David N. Plank Who Is Opposed to Common Core and Why?

Educational

Researcher May 2016 45: 263-266, first published on May 12, 2016

doi:10.3102/0013189X16651087

Letters

Steven J. Klees

VAMs Are Never "Accurate, Reliable, and Valid"

Educational Researcher May 2016 45: 267, doi:10.3102/0013189X16651081

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Understanding Science Achievement Gaps by Race/Ethnicity and Gender in Kindergarten and First Grade
Educational Researcher June/July 2016 45: 273-282, first published on June 21, 2016 doi:10.3102/0013189X16656611

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Alan C. K. Cheung and Robert E. Slavin
Methodological Features Affect Effect Sizes in Education
Educational Researcher June/July 2016 45: 283-292, first published on June 21, 2016 doi:10.3102/0013189X16656615

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Mimi Engel, Amy Claessens, Tyler Watts, and George Farkas
Mathematics Content Coverage and Student Learning in Kindergarten
Educational Researcher June/July 2016 45: 293-300, first published on June 23, 2016 doi:10.3102/0013189X16656841

Sabrina Zirkel and Tabora Johnson
Mirror on the Wall: A Critical Examination of the Conceptualization of the Study of Black Racial Identity in Education
Educational Researcher June/July 2016 45: 301-311, first published on June 29, 2016 doi:10.3102/0013189X16656938

Mirror,

Craig W. Johnson, Ronald Johnson, Michael Steigman, Chioma Odo, Suvendra Vijayan, and Devadatta V. Tata
Appropriately Targeting Group Interventions for Academic Success Adopting the Clinical Model and PAR Profiles
Educational Researcher June/July 2016 45: 312-323, first published on June 28, 2016 doi:10.3102/0013189X16656939

Appropriately Targeting Group

Interventions for Academic Success Adopting the Clinical Model and PAR Profiles

Educational Researcher June/July 2016 45: 312-323, first published on June 28, 2016 doi:10.3102/0013189X16656939

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Jon Valant and Daniel A. Newark

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Lina Shanley

Evaluating**Longitudinal Mathematics Achievement Growth: Modeling and Measurement Considerations for Assessing Academic Progress***Educational Researcher August/September 2016 45: 347-357, first published on July 25, 2016 doi:10.3102/0013189X16662461*

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Waivering as**Governance: Federalism During the Obama Administration***Educational Researcher August/September 2016 45: 358-366, first published on August 8, 2016 doi:10.3102/0013189X16663495*

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Educational Studies in Mathematics

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A framework for proofs and refutations in school mathematics: Increasing content by deductive guessing

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Students' use of slope conceptualizations when reasoning about the line of best fit

Stephanie A. Casey, Courtney Nagle

Do explicit number names accelerate pre-kindergarteners' numeracy and place value acquisition?

Suzanne D. Magargee, Judith E. Beauford

Promoting middle school students' proportional reasoning skills through an ongoing professional development programme for teachers

Annette Hilton, Geoff Hilton, Shelley Dole

Putting the unit in pre-service secondary teachers' unit circle

Kevin C. Moore, Kevin R. LaForest, Hee Jung Kim

Erratum to: Putting the unit in pre-service secondary teachers' unit circle

Kevin C. Moore, Kevin R. LaForest, Hee Jung Kim

Reinventing fractions and division as they are used in algebra: the power of preformal productions

Frederick Peck, Michael Matassa

Book Review: The power of a great introduction. Karp, Alexander, Schubring, Gert (Eds.) (2014). *Handbook on the history of mathematics education*

Snezana Lawrence

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Theory in and for mathematics education: in pursuit of a critical agenda

Tony Brown, Yvette Solomon, Julian Williams

Problematising the pursuit of progress in mathematics education

Anna Llewellyn

Schooling novice mathematics teachers on structures and strategies: a Bourdieuan perspective on the role of "others" in classroom practices

Kathleen T. Nolan

Formal and informal mathematical discourses: Bakhtin and Vygotsky, dialogue and dialectic

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At the intersection between the subject and the political: a contribution to an ongoing discussion

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Where form and substance meet: using the narrative approach of *re-storying* to generate research findings and community rapprochement in (university) mathematics education

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An intentionality interpretation of meaning in mathematics education

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Transfer of solutions to conditional probability problems: effects of example problem format, solution format, and problem context

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Growing-making mathematics: a dynamic perspective on people, materials, and movement in classrooms

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Moving beyond a traditional algorithm in whole number subtraction: Preservice teachers' responses to a student's invented strategy

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Mathematical Thinking and Learning

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An Exponential Growth Learning Trajectory: Students' Emerging Understanding of Exponential Growth Through Covariation

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Evolution of Unit Fraction Conceptions in Two Fifth-Graders with a Learning Disability: An Exploratory Study

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Version of Record online: 12 JAN 2016 | DOI: 10.1002/tea.21312

STEM-focused high schools as a strategy for enhancing readiness for postsecondary STEM programs

Barbara Means, Haiwen Wang, Viki Young, Vanessa L. Peters and Sharon J. Lynch

Version of Record online: 18 JAN 2016 | DOI: 10.1002/tea.21313

Exemplification in science instruction: Teaching and learning through examples

Alandeom W. Oliveira and Adam O. Brown

Version of Record online: 30 MAR 2016 | DOI: 10.1002/tea.21319

A case study of long-term engagement and identity-in-practice: Insights into the STEM pathways of four underrepresented youths

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Version of Record online: 23 SEP 2015 | DOI: 10.1002/tea.21268

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John

L. Rudolph and Shusaku Horibe

Version of Record online: 22 DEC 2015 | DOI: 10.1002/tea.21303

The development and validation of a learning progression for argumentation in science

Jonathan F. Osborne, J. Bryan Henderson, Anna MacPherson, Evan Szu, Andrew Wild and Shi-Ying Yao
Version of Record online: 3 APR 2016 | DOI: 10.1002/tea.21316

Disciplinary literacy in the science classroom: Using adaptive primary literature

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Version of Record online: 5 MAY 2016 | DOI: 10.1002/tea.21317

Visualizing biological data in museums: Visitor learning with an interactive tree of life exhibit

Michael S. Horn, Brenda C. Phillips, Evelyn Margaret Evans, Florian Block, Judy Diamond and Chia Shen
Version of Record online: 3 APR 2016 | DOI: 10.1002/tea.21318

Family learning outdoors: Guided participation on a nature walk

Heather Toomey Zimmerman and Lucy R. McClain
Version of Record online: 26 MAY 2015 | DOI: 10.1002/tea.21254

Stories, proverbs, and anecdotes as scaffolds for learning science concepts

Harriet Mutonyi
Version of Record online: 8 JUN 2015 | DOI: 10.1002/tea.21255

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What students learn from hands-on activities

Martin Schwichow, Corinne Zimmerman, Steve Croker and Hendrik Härtig
Version of Record online: 24 FEB 2016 | DOI: 10.1002/tea.21320

Designing automated guidance for concept diagrams in inquiry instruction

Kihyun Ryoo and Marcia C. Linn

Version of Record online: 3 APR 2016 | DOI: 10.1002/tea.21321

A day at the museum: The impact of field trips on middle school science achievement

Emilyn Ruble Whitesell

Version of Record online: 2 JUN 2016 | DOI: 10.1002/tea.21322

Tool trouble: Challenges with using self-report data to evaluate long-term chemistry teacher professional development

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Herrington, Ellen J. Yeziarski and Senetta F. Bancroft

Version of Record online: 29 MAR 2016 | DOI: 10.1002/tea.21323

Epistemologies in practice: Making scientific practices meaningful for students

Leema K. Berland, Christina V. Schwarz, Christina Krist, Lisa Kenyon, Abraham S. Lo and Brian J. Reiser

Version of Record online: 8 JUN 2015 | DOI: 10.1002/tea.21257

Examining evidence construction as the transformation of the material world into community knowledge

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Version of Record online: 18 JUN 2015 | DOI: 10.1002/tea.21264

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Teachers' Pedagogical Design Capacity for Scientific Argumentation

AMANDA KNIGHT-BARDSLEY and KATHERINE L. McNEILL

Version of Record online: 25 APR 2016 | DOI: 10.1002/sce.21222

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CHRISTIANE KONNEMANN, ROMAN ASSHOFF and MARCUS HAMMANN

Version of Record online: 15 MAR 2016 | DOI: 10.1002/sce.21226

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AMANDA CATHERINE DICKES, PRATIM SENGUPTA, AMY VOSS FARRIS and SATABDI BASU

Version of Record online: 25 APR 2016 | DOI: 10.1002/sce.21217

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Why Do Secondary School Students Lose Their Interest in Science? Or Does it Never Emerge? A Possible and Overlooked Explanation

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Version of Record online: 30 JUN 2016 | DOI: 10.1002/sce.21233

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Version of Record online: 30 JUN 2016 | DOI: 10.1002/sce.21237

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Version of Record online: 28 APR 2016 | DOI: 10.1002/sce.21227

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Version of Record online: 30 JUN 2016 | DOI: 10.1002/sce.21232

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By: Regina F. Frey, Beth A. Fisher, Erin D. Solomon, Denise A. Leonard, Jacinta M. Mutambuki, Cheryl A. Cohen, Jia Luo, and Santhi Pondugula

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By: Matthew Nyman and Tyler St. Clair

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By: Anna Jo Auerbach and Elisabeth E. Schussler

Research and Teaching: Transforming Discussion in General Chemistry With Authentic Experiences for Engineering Students

By: Kent J. Crippen, Treavor H. Boyer, Maria Korolev, Trisha de Torres, Phil J. Brucat, and Chang-Yu Wu

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