

2013 DR K-12 Awards

**This list contains newly awarded grants as well as grants continuing under a new award number.*

Award Number	Project	PI	Institution
1348695	A Research Design Conference: How Can Digital Resources Increase Collaboration and Support Teachers Implementing Standards?	Pat Wasley	Teaching Channel
1316433	An Integrated Instructional Model for Accelerating Student Achievement in Science and Literacy in Grades 1-2	Nancy Romance	Florida Atlantic University
1316473	ASPECT: Advancing Science Performance with Emerging Computer Technologies	James Minogue	North Carolina State University
1315943	Assessing Student Engagement in Math and Science in Middle School: Classroom, Family, and Peer Effects on Engagement	Ming-Te Wang	University of Pittsburgh
1315995	Building Capacity for the Next Generation Science Standards through Networked Improvement Communities	Jessica Thompson	University of Washington
1265677	CAREER: Characterizing Critical Aspects of Mathematics Classroom Discourse	Jessica Bishop	University of Georgia Research Foundation Inc
1253344	CAREER: Community-based Engineering as a Learning and Teaching Strategy for Pre-service Urban Elementary Teachers	Kristen Wendell	University of Massachusetts Boston
1253254	CAREER: Fraction Activities and Assessments for Conceptual Teaching (FAACT) for Students with Learning Disabilities	Jessica Hunt	Utah State University
1252575	CAREER: Investigating Differentiated Instruction and Relationships between Rational Number Knowledge and Algebraic Reasoning in Middle School	Amy Hackenberg	Indiana University
1313531	CAREER: Learning to Make Mathematical Connections	Lindsey Richland	University of Chicago

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1253081	CAREER: Noticing and Using Students' Prior Knowledge in Problem-based Instruction	Gloriana Gonzalez Rivera	University of Illinois at Urbana-Champaign
1253822	CAREER: Reciprocal Noticing: Latino/a Students and Teachers Constructing Common Resources in Mathematics	Higinio Dominguez	Michigan State University
1253523	CAREER: Scaffolding Engineering Design to Develop Integrated STEM Understanding with WISEngineering	Jennifer Chiu	University of Virginia Main Campus
1305150	CAREER: Work Contexts, Teacher Learning Opportunities, and Mathematics Achievement of Middle School Students	Motoko Akiba	Florida State University
1316782	Climate Change Narrative Game Education (CHANGE)	Glenn Smith	University of South Florida
1316728	Common Online Data Analysis Platform (CODAP)	William Finzer	KCP Technologies
1321828	Cross-National Comparison of School and District Supports for High-quality Mathematics Instruction in the US and China	Thomas Smith	Vanderbilt University
1349309	Cross-sector Insights Toward Aligning Education Research and Real-world Impact	Sasha Barab	Arizona State University
1316903	Designing Assessments in Physical Science Across Three Dimensions (Collaborative Research: DeBarger)	Angela DeBarger	SRI International
1316908	Designing Assessments in Physical Science Across Three Dimensions (Collaborative Research: Krajcik)	Joseph Krajcik	Michigan State University

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1316874	Designing Assessments in Physical Science Across Three Dimensions (Collaborative Research: Pellegrino)	James Pellegrino	University of Illinois at Chicago
1316312	Developing and Integrating Spatial Mathematics and Engineering	Richard Lehrer	Vanderbilt University
1316057	Developing Critical Evaluation as a Scientific Habit of Mind: Instructional Scaffolds for Secondary Earth and Space Sciences	Doug Lombardi	Temple University
1316241	Developing Rich Media-based Materials for Practice-based Teacher Education	Daniel Chazan	University of Maryland College Park
1313718	Early Childhood Education in the Context of Mathematics, Science, and Literacy	Julie Sarama	University of Denver
1316246	Electronic Communities for Mathematics Instruction (e-CMI)	Albert Cuoco	Education Development Center
1316601	Engineering for All (EFA)	Michael Hacker	Hofstra University
1316799	Enhancing Argumentation with Social Media: Supporting Teacher Professional Learning	James Ellis	University of Kansas Center for Research Inc
1259092	Enhancing State Implementation of College and Career Ready Standards in Mathematics	Carrie Heath Phillips	Council of Chief State School Officers
1316520	Every Day, Every Child: A Partnership for Research with Elementary Math and Science Instructional Specialists	Kimberly Markworth	Western Washington University

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1316702	Forming Better STEM Career Trajectories: Sustaining and Scaling-up CAP	Barbara Schneider	Michigan State University
1316232	Fostering Pedagogical Argumentation: Pedagogical Reasoning With and About Student Science Ideas	Leema Berland	University of Wisconsin-Madison
1317059	From Undergraduate STEM Major to Enacting the NGSS	Valerie Otero	University of Colorado at Boulder
1338176	Illuminating Learning by Splitting: A Learning Analytics Approach to Fraction Game Data Analysis	Taylor Martin	Utah State University
1317068	Improving Competency in Elementary Science Teaching	Linda Darling-Hammond	Stanford University
1316736	Improving Formative Assessment Practices: Using Learning Trajectories to Develop Resources that Support Teacher Instructional Practice and Student Learning in CMP2	Alison Castro Superfine	University of Illinois at Chicago
1316225	Innovate to Mitigate: A Crowdsourced Carbon Challenge	Gillian Puttick	TERC Inc
1313713	Inquiry Primed: An Intervention to Mitigate the Effects of Stereotype Threat in Science	Samantha Daley	CAST, Inc.
1316347	Integrating Quality Talk Professional Development to Enhance Professional Vision and Leadership for STEM Teachers in High-need Schools	P. Karen Murphy	Pennsylvania State Univ University Park
1316571	Investigating Simulations of Teaching Practice: Assessing Readiness to Teach Elementary Mathematics	Tim Boerst	University of Michigan Ann Arbor

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1316920	iSTEM: A Multi-state Longitudinal Study of the Effectiveness of Inclusive STEM High Schools	Barbara Means	SRI International
1355323	I TEST Longitudinal Study	Philip Sadler	Harvard University
1316398	Language-rich Inquiry Science with English Language Learners through Biotechnology (LISELL-B)	Cory Buxton	University of Georgia Research Foundation Inc
1317034	Learning Algebra and Methods for Proving (LAMP)	David Yopp	University of Idaho
1348990	Modeling Scientific Practice in High School Biology: A Next Generation Instructional Resource	Cynthia Passmore	University of California-Davis
1316645	MOSART HSLs: Misconceptions Oriented Standards-based Assessment Resource for Teachers of High School Life Science	Philip Sadler	Harvard University
1316762	Multimedia Engineering Notebook Tools to Support Engineering Discourse in Urban Elementary School Classrooms (Collaborative Research: Wendell)	Kristen Wendell	University of Massachusetts Boston
1316910	Multimedia Engineering Notebook Tools to Support Engineering Discourse in Urban Elementary School Classrooms (Collaborative Research: Wright)	Christopher Wright	TERC Inc
1316550	Next Generation Preschool Science: An Innovative Program to Facilitate Young Children's Learning of Science Practices and Concepts	Ximena Dominguez	SRI International
1344266	Primary School Organizations as Open Systems: Strategic External Relationship Development to Promote Student Engagement in STEM Topics	Paul Leonardi	Northwestern University

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1316660	Promoting Students' Spatial Thinking in Upper Elementary Grades using Geographic Information Systems (GIS)	May Jadallah	Illinois State University
1316683	QuEST: Quality Elementary Science Teaching	Deborah Hanuscin	University of Missouri-Columbia
1338512	School Structure and Science Success: Organization and Leadership Influences On Student Achievement (Collaborative Research: Butler)	Malcolm Butler	University of Central Florida
1316537	Science as a Context for English Language Development: Exploring the Practical and Theoretical Implications for Teacher Professional Development	Lynn Rankin	Exploratorium
1316691	Science Assessment Planning Among State Teams	Pascal Forgione	Educational Testing Service
1316834	Secondary Science Teaching with English Language and Literacy Acquisition (SSTELLA)	Patricia Stoddart	University of California-Santa Cruz
1316235	Smarter Together Working Conference: Developing a Shared Curriculum of Complex Instruction for Elementary Mathematics Methods Courses	Amy Parks	University of Georgia Research Foundation Inc
1317073	Social Dynamics: Leveraging Online Social Networks to Shape Science Identities and Support Learning Science Concepts in Middle School Students	Lynn Tran	University of California-Berkeley
1346491	Teacher's Guide to the Mathematics and Science Resources of the ELPD Framework	H Gary Cook	University of Wisconsin-Madison
1316202	Testing a Professional Development Model for High School Science Reform and the Relationship of Key Variables to Student Achievement	Jody Bintz	Biological Sciences Curriculum Study

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1316557	The Validity of Technology-enhanced Assessment in Geometry	Jessica Masters	Measured Progress
1316653	Theorizing and Advancing Teachers' Responsive Decision Making in the Domain of Rational Numbers	Susan Empson	University of Texas at Austin
1262715	Undergraduate Biology Education Research Program	Erin Dolan	University of Georgia Research Foundation Inc
1314416	Using Math Pathways and Pitfalls to Promote Algebra Readiness	Jodi Davenport	WestEd
1316527	Using Research-based Formative Assessment to Improve Mathematics Teaching and Learning	Jonathan Supovitz	University of Pennsylvania
1313695	Using Rule Space and Poset-based Adaptive Testing Methodologies to Identify Ability Patterns in Early Mathematics and Create a Comprehensive Mathematics Ability Test	Douglas Clements	University of Denver
1345231	WeInvestigate: Collaborative Exploration of Scientific Phenomena with the Assistance of Hand-held Simulations, Prose, and Graphics	Annemarie Palincsar	University of Michigan Ann Arbor