

# 2012 DR K-12 Awards

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

Award No.	Title	PI	Institution
1222624	<a href="#"><u>An Initial Learning Progression in Chemical Design (Collaborative Research: Sevian)</u></a>	Hannah Sevian	University of Massachusetts Boston
1221494	<a href="#"><u>An Initial Learning Progression in Chemical Design (Collaborative Research: Talanquer)</u></a>	Vincente Talanquer	University of Arizona
1222340	<a href="#"><u>Assessing Secondary Teachers' Algebraic Habits of Mind (Collaborative Research: Matsuura)</u></a>	Ryota Matsuura	Saint Olaf College
1222496	<a href="#"><u>Assessing Secondary Teachers' Algebraic Habits of Mind (Collaborative Research: Stevens)</u></a>	Glenn Stevens	Trustees of Boston University
1222426	<a href="#"><u>Assessing Secondary Teachers' Algebraic Habits of Mind (Collaborative Research: Sword)</u></a>	Sarah Sword	Education Development Center
1222777	<a href="#"><u>Assessing, Validating, and Developing Content Knowledge for Teaching Energy (Collaborative Research: Gitomer)</u></a>	Drew Gitomer	Rutgers University New Brunswick
1222598	<a href="#"><u>Assessing, Validating, and Developing Content Knowledge for Teaching Energy (Collaborative Research: Minstrell)</u></a>	Jim Minstrell	FACET Innovations, LLC
1222732	<a href="#"><u>Assessing, Validating, and Developing Content Knowledge for Teaching Energy (Collaborative Research: Vokos)</u></a>	Stamatis Vokos	Seattle Pacific University
1222580	<a href="#"><u>Assessing, Validating, and Developing Content Knowledge for Teaching Energy (Collaborative Research: Wittmann)</u></a>	Michael Wittmann	University of Maine
1222869	<a href="#"><u>Building High School Students' Understanding of Evolution</u></a>	Louisa Stark	University of Utah
1219798	<a href="#"><u>Center for the Mathematics Education of Latinos (CEMELA)</u></a>	Marta Civil	University of North Carolina at Chapel Hill
1222566	<a href="#"><u>Community-based Engineering Design Challenges for Adolescent English Learners</u></a>	Amy Wilson	Utah State University
1201917	<a href="#"><u>Core Math Tools</u></a>	Christian Hirsch	Western Michigan University
1212282	<a href="#"><u>Crisis in K-16 STEM Education: A Regional Conference to Promote Local Solutions to a National Problem</u></a>	Laurie Miller-McNeill	Rockland Community College

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1258854	<a href="#"><u>Cyber-enabled Learning: Digital Natives in Integrated Scientific Inquiry Classrooms (Collaborative Research: Campbell)</u></a>	Todd Campbell	University of Massachusetts, Dartmouth
1207945	<a href="#"><u>Developing Algebra-ready Students for Middle School: Exploring the Impact of Early Algebra</u></a>	Maria Blanton	TERC Inc
1232388	<a href="#"><u>Developing and Testing a Model to Support Student Understanding of the Sub-microscopic Interactions that Govern Biological and Chemical Processes</u></a>	Joseph Krajcik	Michigan State University
1216850	<a href="#"><u>Educational Design and Development: Planning for a STEM Learning Research Transformation</u></a>	Frank Davis	TERC Inc
1223074	<a href="#"><u>Enhancing Mathematics Teaching and Learning in Urban Elementary Schools: A Cluster-randomized Efficacy Trial of a Novel Professional Development Approach</u></a>	Linda Foreman	Teachers Development Group
1222359	<a href="#"><u>ERGO: Developing Principles for Curriculum Ergonomics in the Common Core Era</u></a>	Jeffrey Choppin	University of Rochester
1220092	<a href="#"><u>Evaluation of the Sustainability and Effectiveness of Inquiry-based Advanced Placement Science Courses: Evidence From an In-depth Formative Evaluation and Randomized Controlled Study</u></a>	Mark Long	University of Washington
1223076	<a href="#"><u>Exploratory: Activate Computational Thinking (ACT)</u></a>	Katherine Hayden	University Auxiliary and Research Services Corporation
1221693	<a href="#"><u>Exploring Methods for Improving Teachers' Mathematical Quality of Instruction</u></a>	Heather Hill	Harvard University
1220305	<a href="#"><u>Exploring the Efficacy of Engineering is Elementary (E4)</u></a>	Christine Cunningham	Museum of Science
1249157	<a href="#"><u>Fossil Finders: Using Fossils to Teach about Evolution, Inquiry and Nature of Science</u></a>	Barbara Crawford	University of Georgia Research Foundation Inc
1252709	<a href="#"><u>FUN: A Finland US Network for Engagement and STEM Learning in Games</u></a>	Jodi Asbell-Clarke	TERC Inc
1238625	<a href="#"><u>GeniVille: Exploring the Intersection of School and Social Media</u></a>	Paul Horwitz	Concord Consortium
1220756	<a href="#"><u>High Adventure Science: Earths Systems and Sustainability</u></a>	Amy Pallant	Concord Consortium

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1238552	<a href="#"><u>Identifying and Measuring the Implementation and Impact of STEM School Models</u></a>	Jeanne Century	University of Chicago
1222709	<a href="#"><u>Identifying Science Teaching Strategies for Promoting Reasoned Discussions of Concepts and Simulations</u></a>	John Clement	University of Massachusetts Amherst
1258679	<a href="#"><u>Improving Capacity for Game-based Research to Scale: a Conference</u></a>	Kurt Squire	University of Wisconsin-Madison
1222588	<a href="#"><u>Laboratory for the Study of Alien Worlds: A National Resource for Students and Teachers</u></a>	Roy Gould	Smithsonian Institution Astrophysical Observatory
1222430	<a href="#"><u>Learning Mathematics of the City in the City</u></a>	Laurie Rubel	CUNY Brooklyn College
1222944	<a href="#"><u>Learning Trajectories to Support the Growth of Measurement Knowledge: Pre-K through Middle School</u></a>	Jeffrey Barrett	Illinois State University
1220141	<a href="#"><u>Leveraging MIPOs: Developing a Theory of Productive Use of Student Mathematical Thinking (Collaborative Research: Leatham)</u></a>	Keith Leatham	Brigham Young University
1220357	<a href="#"><u>Leveraging MIPOs: Developing a Theory of Productive Use of Student Mathematical Thinking (Collaborative Research: Stockero)</u></a>	Shari Stockero	Michigan Technological University
1220148	<a href="#"><u>Leveraging MIPOs: Developing a Theory of Productive Use of Student Mathematical Thinking (Collaborative Research: Van Zoest)</u></a>	Laura Van Zoest	Western Michigan University
1220022	<a href="#"><u>Mathematical and Computational Methods for Planning a Sustainable Future (Collaborative Research: Cozzens)</u></a>	Margaret Cozzens	Rutgers University New Brunswick
1222843	<a href="#"><u>Mathematical Knowledge for Equitable Teaching</u></a>	Jennifer Chauvot	University of Houston
1222560	<a href="#"><u>Mini-Symposia: The Results of the African Diaspora: Developing Black Scholars in Science Education for the 21st Century in the United States, Part II</u></a>	Mary Atwater	University of Georgia Research Foundation Inc
1220675	<a href="#"><u>Modeling Hydrologic Systems in Elementary Science (MoHSES)</u></a>	Cory Forbes	University of Iowa
1222853	<a href="#"><u>Modeling in Primary Grades (MPG): Science Learning through Content-rich Inquiry</u></a>	Ala Samarapungavan	Purdue University

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1238643	<a href="#"><u>Systemic Transformation for Inquiry Learning Environments (STILE) for Science, Technology, Engineering and Mathematics</u></a>	Ellen Meier	Teachers College, Columbia University
1222220	<a href="#"><u>Ocean Tracks: Investigating Marine Migrations in a Changing Ocean (Collaborative Research: Block)</u></a>	Barbara Block	Stanford University
1222413	<a href="#"><u>Ocean Tracks: Investigating Marine Migrations in a Changing Ocean (Collaborative Research: Krumhansl)</u></a>	Ruth Krumhansl	Education Development Center
1221065	<a href="#"><u>Partnerships for Early Childhood Curriculum Development: Readiness through Integrative Science and Engineering (RISE)</u></a>	Christine McWayne	Tufts University
1247096	<a href="#"><u>Persistent, Enthusiastic, Relentless: Study of Induction Science Teachers (PERSIST)</u></a>	Julie Luft	University of Georgia Research Foundation Inc
1256490	<a href="#"><u>Piloting Graph Literacy Activities in Maine</u></a>	Carolyn Staudt	Concord Consortium
1212766	<a href="#"><u>Pre-K Early Algebra through Quantitative Reasoning (PreKEA)</u></a>	Zaur Berkaliev	California State University, Chico Research Foundation
1209309	<a href="#"><u>Promoting Science among English Language Learners (P-SELL) Scale-Up</u></a>	Okhee Lee	New York University
1241428	<a href="#"><u>Radical Innovation Summit</u></a>	Alan Craig	University of Illinois at Urbana-Champaign
1220666	<a href="#"><u>Researching the Efficacy of the Science and Literacy Academy Model (Collaborative Research: Osborne)</u></a>	Jonathan Osborne	Stanford University
1223021	<a href="#"><u>Researching the Efficacy of the Science and Literacy Academy Model (Collaborative Research: Strang)</u></a>	Craig Strang	University of California, Berkeley
1221459	<a href="#"><u>Scale-up of Selective STEM Specialty Schools: Efficacy Study</u></a>	Steven Schneider	WestEd
1222892	<a href="#"><u>Sensing Science: Heat and Temperature Readiness for Early Elementary Students</u></a>	Carolyn Staudt	Concord Consortium
1221614	<a href="#"><u>SimScientists Assessments: Physical Science Links</u></a>	Edys Quellmalz	WestEd

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1252875	<a href="#"><u>Spatial Mathematics, Engineering, and Science: Toward an Integrated STEM Education</u></a>	Richard Lehrer	Vanderbilt University
1221861	<a href="#"><u>Supporting Large Scale Change in Science Education: Understanding Professional Development and Adoption Variation Related to the Revised Advanced Placement Curriculum (PD-RAP)</u></a>	Arthur Eisenkraft	University of Massachusetts Boston
1221351	<a href="#"><u>Supporting the Emergence of a Professional Teaching Community through Collective Knowledge-building in Assessment and Feedback of Mathematical Thinking (Collaborative Research: Brandt)</u></a>	Carol Brandt	Temple University
1222355	<a href="#"><u>Supporting the Emergence of a Professional Teaching Community through Collective Knowledge-building in Assessment and Feedback of Mathematical Thinking (Collaborative Research: Silverman)</u></a>	Jason Silverman	Drexel University
1228034	<a href="#"><u>Teachers Empowered to Advance Change in Mathematics (TEACH MATH): Preparing Pre K-8 Teachers to Connect Children's Mathematical Thinking and Community-based Funds of Knowledge</u></a>	Corey Drake	Michigan State University
1219605	<a href="#"><u>The Impact of Early Algebra on Students' Algebra-readiness (Collaborative Research: Blanton)</u></a>	Maria Blanton	TERC Inc
1219606	<a href="#"><u>The Impact of Early Algebra on Students' Algebra-readiness (Collaborative Research: Knuth)</u></a>	Eric Knuth	University of Wisconsin-Madison
1220623	<a href="#"><u>The Role and Use of Examples in Learning to Prove</u></a>	Eric Knuth	University of Wisconsin-Madison
1214813	<a href="#"><u>The U.S. National Commission on Mathematics Instruction (USNC/MI): Representing the U.S. Mathematics Community Abroad</u></a>	Ana Ferreras	National Academy of Sciences
1238172	<a href="#"><u>Transforming STEM Competitions into Collaboratives: Developing eCrafting Collabs for Learning with Electronic Textiles</u></a>	Yasmin Kafai	University of Pennsylvania
1221188	<a href="#"><u>Unifying Life: Placing Urban Tree Diversity in an Evolutionary Context</u></a>	Yael Wyner	CUNY City College
1220635	<a href="#"><u>Videocases for Science Teaching Analysis Plus (ViSTA Plus): Efficacy of a Videocase-based, Analysis-of-practice Teacher Preparation Program</u></a>	Rebecca Kruse	Biological Sciences Curriculum Study