

2015 DRK-12 Awards

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

Award Number	Project	PI	Institution
1417261	Refining a Model with Tools to Develop Math PD Leaders: An Implementation Study	Hilda Borko	Stanford University
1503399	An Efficacy Study of the Learning and Teaching Geometry PD Materials: Examining Impact and Context-Based Adaptations	Jennifer Jacobs	University of Colorado at Boulder
1461358	Building on the Success of Critical Issues in Mathematics Education Workshops	David Eisenbud	Mathematical Sciences Research Institute
1453493	CAREER: Proof in Secondary Classrooms: Decomposing a Central Mathematical Practice	Michelle Cirillo	University of Delaware
1503486	Collaborative Math: Creating Sustainable Excellence in Mathematics for Head Start Programs	Jie-Qi Chen	Erikson Institute
1503451	Conceptual Model-based Problem Solving: A Response to Intervention Program for Students with Learning Difficulties in Mathematics	Yan Ping Xin	Purdue University
1445853	Design and Execution of a Design Laboratory (Learning Lab) for STEM Projects	Paul LeMahieu	Carnegie Foundation for the Advancement of Teaching
1503428	Design Technology and Engineering Education for English Learner Students: Project DTEEL	Rebecca Callahan	University of Texas at Austin
1503511	Developing Teachers' Capacity to Promote Argumentation in Secondary Science	William Sandoval	University of California, Los Angeles

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1503330	Development of Language-Focused Three-Dimensional Science Instructional Materials to Support English Language Learners in Fifth Grade (Collaborative Research: Lee)	Okhee Lee	New York University
1502507	Development of Language-Focused Three-Dimensional Science Instructional Materials to Support English Language Learners in Fifth Grade (Collaborative Research: Valdes)	Guadalupe Valdes	Stanford University
1417878	Fostering STEM Trajectories: Bridging ECE Research, Practice, and Policy	Lori Takeuchi	Joan Ganz Cooney Center
1417757	Learning Labs: Using Videos, Exemplary STEM Instruction and Online Teacher Collaboration to Enhance K-2 Mathematics and Science Practice and Classroom Discourse	Pat Wasley	Teaching Channel
1503507	Math Snacks Early Algebra Using Games and Inquiry to Help Students Transition from Number to Variable	Karin Wiburg	New Mexico State University
1503414	Mathematical and Computational Methods for Planning a Sustainable Future II	Margaret Cozzens	Rutgers University New Brunswick
1518824	Online Resources for Educating Students about Ebola and Other Emerging and Re-emerging Infectious Diseases	Jacqueline Miller	Education Development Center, Inc.
1503315	PBS NewsHour STEM Student Reporting Labs: Broad Expansion of Youth Journalism to Support Increased STEM Literacy Among Underserved Student Populations and Their Communities	Leah Clapman	Greater Washington Educational Telecommunications Association
1446112	Personalizing Recommendations in a Large-Scale Education Analytics Pipeline (Collaborative Research: Kesselman)	Carl Kesselman	University of Southern California
1446641	Personalizing Recommendations in a Large-Scale Education Analytics Pipeline (Collaborative Research: Pardos)	Zachary Pardos	University of California, Berkeley

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1446138	Personalizing Recommendations in a Large-Scale Education Analytics Pipeline (Collaborative Research: Ram)	Prasad Ram	EdNovo
1503255	Playing with the Data: Developing Digital Supports for Middle School Science Teachers using Game-based Formative Assessment	Katherine McMillan	Education Development Center
1503161	Precision Math: Using Interactive Gaming Technology to Build Student Proficiency in the Foundational Concepts and Problem Solving Skills of Measurement and Data Analysis	Christian Doabler	University of Oregon Eugene
1503519	Quality Urban Ecology Science Teaching for Diverse Learners	Magaly Lavadenz	Loyola Marymount University
1503439	Ramping Up Accessibility in STEM: Inclusively Designed Simulations for Diverse Learners	Emily Moore	University of Colorado at Boulder
1550897	Retention of Early Algebraic Understanding	Maria Blanton	TERC, Inc.
1503358	Scholarly Inquiry and Practices (SIP) Conference for Mathematics Education Methods	Wendy Sanchez	Kennesaw State University Research and Service Foundation
1503280	Science Teachers Learning from Lesson Analysis (STeLLA): High School Biology	Christopher Wilson	Biological Sciences Curriculum Study
1503211	Scientific Data in Schools: Measuring the Efficacy of an Innovative Approach to Integrating Quantitative Reasoning in Secondary Science (Collaborative Research: Mead)	Louise Mead	Michigan State University
1503005	Scientific Data in Schools: Measuring the Efficacy of an Innovative Approach to Integrating Quantitative Reasoning in Secondary Science (Collaborative Research: Stuhlsatz)	Molly Stuhlsatz	Biological Sciences Curriculum Study
1503481	SimScientists Games: Development of Simulation-Based Game Designs to Enhance Formative Assessment and Deep Science Learning in Middle School	Edys Quellmalz	WestEd

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1503170	SmartCAD: Guiding Engineering Design with Science Simulations (Collaborative Research: Chiu)	Jennifer Chiu	University of Virginia Main Campus
1503436	SmartCAD: Guiding Engineering Design with Science Simulations (Collaborative Research: Magana-de-Leon)	Alejandra Magana-de-Leon	Purdue University
1503196	SmartCAD: Guiding Engineering Design with Science Simulations (Collaborative Research: Xie)	Charles Xie	Concord Consortium
1461833	Smarter Together Working Conference: Developing a Shared Curriculum of Complex Instruction for Elementary Mathematics Methods Courses	Amy Parks	Michigan State University
1503153	STEM Practice-Rich Investigations for NGSS Teaching (SPRINT)	Julie Yu	Exploratorium
1520689	Stopping an Epidemic of Misinformation: Leveraging the K-12 Science Education System to Respond to Ebola	Sean Smith	Horizon Research, Inc.
1503456	Strategies for Leading Classroom Discussions Aimed at Core Ideas and Scientific Modeling Practices	John Clement	University of Massachusetts Amherst
1502711	Strengthening the Quality, Design and Usability of Simulations as Assessments of Teaching Practice	Meghan Shaughnessy	University of Michigan Ann Arbor
1503206	Student-Adaptive Pedagogy for Elementary Teachers: Promoting Multiplicative and Fractional Reasoning to Improve Students' Preparedness for Middle School Mathematics	Ron Tzur	University of Colorado at Denver
1503383	Teachers with GUTS: Developing Teachers as Computational Thinkers Through Supported Authentic Experiences in Computing Modeling and Simulation	Irene Lee	Santa Fe Institute
1503510	Teaching and Learning Algebraic Thinking Across the Middle Grades: A Research-based Approach Using PhET Interactive Simulations	Katherine Perkins	University of Colorado at Boulder

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1503395	Thinking Spatially about the Universe: A Physical and Virtual Laboratory for Middle School Science (Collaborative Research: Goodman)	Alyssa Goodman	Harvard University
1502798	Thinking Spatially about the Universe: A Physical and Virtual Laboratory for Middle School Science (Collaborative Research: Sadler)	Philip Sadler	Smithsonian Institution Astrophysical Observatory
1503277	Thirteenth International Congress on Mathematical Education (ICME-13) Travel Grant	Gail Burrill	Michigan State University
1502755	Tools for Teaching and Learning Engineering Practices: Pathways Towards Productive Identity Work in Engineering	Angela Calabrese Barton	Michigan State University
1523010	Transformative Robotics Experience for Elementary Students (TREES)	Ji Shen	University of Miami
1503342	TRUmath and Lesson Study: Supporting Fundamental and Sustainable Improvement in High School Mathematics Teaching (Collaborative Research: Donovan)	Mary Donovan	Strategic Education Research Partnership Institute
1503454	TRUmath and Lesson Study: Supporting Fundamental and Sustainable Improvement in High School Mathematics Teaching (Collaborative Research: Schoenfeld)	Alan Schoenfeld	University of California-Berkeley
1518346	Understanding Ebola Virus Disease	Mark Bloom	Biological Sciences Curriculum Study
1503057	Visual Access to Mathematics: Professional Development for Teachers of English Learners	Mark Driscoll	Education Development Center
1502882	Zoombinis: The Full Development Implementation Research Study of a Computational Thinking Game for Upper Elementary and Middle School Learners	Jodi Asbell-Clarke	TERC, Inc.