R&D Projects

Browse Open Projects

- Biocomplexity-Transforming Innovative High School Curriculum
- Adopting Research-based Instructional Strategies for Enhancing STEM Education (ARISE)
- All Included in Mathematics—Expansion and Dissemination (AIM-ED)
- Biocomplexity and the Habitable Planet
- Building Systems from Scratch
- CIMBLE: Conference on Integrating Math into Informal Building Learning Environments (Math in the Making)
- Zoo and Aquarium Research Collaborative (ZAARC)
- Confronting the Challenges of Climate Literacy
- Creating a Virtual Infrastructure for Engaging Rural Youth in STEM Disciplines
- Creative Robotics
- Design Dimensions
- EcoXPT (Learning about Ecosystems Science and Complex Causality through Experimentation in a Virtual World)
- Empowering Teachers through VideoReView
- Engineering Beyond the Double Bind: Women of Color in Engineering Education and Careers
- Evaluating DMI
- Evaluation of the University of Massachusetts - Amherst Initiative for Maximizing Student Development
- Expansive Meanings and Makings in ArtScience (EMMAS)
- Focus on Energy: Preparing Elementary Teachers to Meet the NGSS Challenge
- GeniGUIDE
- GrACE
- High Adventure Science Evaluation
- I-ECS: Inclusive Exploring CS Curriculum Enhancement as Face-to-Face and Online Support
- Impact of a Teacher-Led Early Algebra Intervention on Children’s Algebraic-Readiness for Middle School
- Impact of Early Algebra on Students’ Algebra Readiness
- Indiana Science Initiative (ISI)
- INK-12: Teaching and Learning Using Interactive Ink Inscriptions
- Innovate to Mitigate
- Investigating STEM Literacies in Maker Spaces
- Investigations in Number, Data, and Space®
- iSWOOP2: Interpreters and Scientists Working On-Site at Our Parks
- iSWOOP: Interpreters and Scientists Working On-Site at Our Parks
- Learning Trajectories in Grades K-2 Children’s Understanding of Algebraic Relationships
- Leveling Up
- Literacies in Engineering for Access and Participation Conference
- LOCUS (Levels of Conceptual Understanding in Statistics) Evaluation
- MSPnet III
- Make Connections: You and Me and Math
- NSF INCLUDES Conference — Collaborative Research: Envisioning Impact
- Poincaré Institute for Mathematics Education
- Researching the Value of Educator Actions for Learning (REVEAL)
- Retention of Early Algebraic Understanding
- Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning
- SABES Center for Mathematics and Adult Numeracy
- Signing High School Science
- SportsLab 2020
- Storytelling Math
- Taking Games to School: Exploratory Study to Support Game-Based Teaching and Learning in High School Science Classes
- Technology to Support Mathematical Argumentation
- The Research and Practice Collaboratory
- Using Routines as an Instructional Tool for Developing Students’ Conceptions of Proof
- Zoombinis: The Full Development Implementation Research Study of a Computational Thinking Game for Upper Elementary and Middle School Learners

Browse Archived Projects

- 2012 MSP LNC Evaluation
- Access Algebra
- AccessData Workshops
- Accessible Mathematics
- Accessing Science Ideas
- Agua, Water, Dlo
- Amazing Earth CASIS Education
- ANI PD-Kent State
- A Practice-Based Approach to Professional Development in Science
- Arcadia: The Next Generation
- ARC Center Project Renewal
• ArtScience
• Astrobiology Afterschool
• Astrobiology Institute Educator Resource Guide
• Atlantic Partnership for the Biological Sciences
• Biocomplexity - Transforming Innovative High-School Curriculum
• BioTeach Evaluation
• Bridging Math Literacy and Digital Media Creation: Students as Learners, Teachers, and Leaders of STEM Content
• Bridging Math Literacy and Digital Media Creation: Students as Learners, Teachers, and Organizers
• Building an Inclusive Mathematics Community
• Capuano Early Childhood Center Exhibits
• Center for Ocean Science Education Excellence (COSEE)
• Children’s Understanding of Functions
• Children and Science Tests
• CLEAN Core NOAA
• CLEAN Pathway
• Climate Change Education and the Media
• CLIPSE Evaluation
• Communities of Practice for Teachers in Peru
• Computing Beyond the Double Bind: Women of Color in Computing Education and Careers
• Connecticut MSP Program Evaluation
• Contribution of Science Fair to Middle School Student Interest in Science Careers
• Creating a Web Presence for the I3 Track
• CS4ALL
• Cultural Context of Learning: Native American Science Education
• Data Games Evaluation
• Data on Enacted Curriculum 2
• DataTools
• Developing Algebra-Ready Students for Middle School: Exploring the Impact of Early Algebra
• Digital Video and Motion Detection Phase II
• DIGITS Evaluation
• Diversity and Innovation for Geosciences (DIG) Texas
• DLESE Data Services - Earth System Science Data in Education
• DNI: Diabetes Numeracy Intervention for American Indians and Alaska Natives
• Early Algebra, Early Arithmetic
• Earth Exploration Toolkit Workshops
• Earth Exploration Toolbook Workshops
• Earth Exploration Toolbook
• Earth Exposed
• EarthKAM
• Earth Science by Design
• Earth Science by Design Leadership Training
• Earth System Science: A Key to Climate Literacy
• Earth-to-Orbit Engineering Design Challenges
• Earth to Orbit Engineering Design Challenges: Personal Satellite Assistant
• Educating About Statistical Issues Using Large Scientific Data Sets
• Educating Business Students as Partners in Scientific Innovation: Presage Factors
• Educating the Imagination
• Eisenhower Regional Alliance for Mathematics and Science Education
• EMPower II
• English Learners and Science Tests (ELAST)
• Enhancing Math in Afterschool
• Enhancing the Use of Data in Education
• Equity Achievement Analysis
• Evaluation of the National Biotechnology Teacher-Leader Program
• Excellence in Estuaries Education
• Excellence in Secondary Science Teaching Evaluation
• Expanding GeoFORCE Texas
• Expanding the Data Cycle
• Eyes in the Sky: Applied Information Technology
• Eyes in the Sky II: Facilitating Classroom Research Using NASA Resources and Geospatial Technology
• Eye Tracking for the Study of Seeing and Imagining
• Facilitating a Deeper Understanding of Change in the Earth System on Multiple Time Scales
• Fantasy Sports Games as Cultures for Informal Learning
• Field Research in Montserrat
• First National Conference on the Educational Applications of Geographic Information Systems (EdGIS)
• Foundations of Algebra
• Fulcrum Institute for Education in Science
• FUN: A Finland-U.S. Network for Engagement and STEM Learning in Games
• Geniverse Evaluation
• Girls’ Energy Conservation Corps (GECCo)
• Girls Innovate3: Girls Innovating with Technology as Entrepreneurial Environmental Engineers
• GO College Project Evaluation
• Handheld Signing Math and Science Dictionaries for Deaf or Hard-of-Hearing Museum Visitors Research Project
• Helios STEM School Pilot
• Honors Earth Science Planning Work
• Horizon Dissemination
• I Believe in Math
• iCue Evaluation
• IGERT Resource Center
• Infusing NSDL in Middle Schools: Obstacles and Strategies
• INK-12: Interactive Ink Inscriptions in K-12
• Inside the Double Bind
• Interactive Earth
• Investigating Astronomy
• Kids’ Survey Network
• Leadership for Mathematics Improvement
• Lead Learners in Mathematics
• Learning in Practice
• Learning Mathematics and Science in Online Environments
• Learning Probe
• Learning Science Online: A Descriptive Study of Online Science Courses for Teachers
• Lesson Study for Accessible Science
• Lesson Study for Science Teachers
• Life on Earth Evaluation
• LSC-Net
• MA ACLS Numeracy Study Circle Model
• Making the Connections in STEM Education
• Mars Exploration Program
• Martian Boneyards
• Massachusetts State Science and Engineering Fair Evaluation Planning
• MathCore for Museums
• Math in Zoos and Aquariums
• Math Momentum in Science Centers
• Math Off the Shelf
• Meeting the Challenges of Accountability in Mathematics and Science
• Methods for Studying Adult Development in Math Professional Development
• Mini-Symposium on Women of Color in STEM
• Mixing in Math: Transforming the Role of Math in Afterschool Programs
• Mixing in Math/SMILE Database
• Mixing in Math | Spanish IBM
• Mobile Signing Math Dictionary
• Mobile Signing Science Dictionary
• Model Chance
• MSPrnet: The Math and Science Partnership Network
• National Center for Improving Student Learning and Achievement
• NEAGEP Evaluation: Identifying Effective Strategies for Paving the Pathway to the Professoriate
• NEIR*TEC
• New York City Professional Development for Adult Educators
• NYC District 79 GED
• On Being Explicit: Toward A New Pedagogical Synthesis in Science
• Pathways to Certification
• Perceived Impact of Science Fair Participation on Scientists’ and Engineers’ Interest in Science
• Philips Color Kinetics
• Professional Development for Mathematics Leadership
• Project AIM Evaluation
• Promoting STEM Career Interest In the Classroom: An Exploratory Study
• Reopening the Science Door: TERC/Lesley Online Master’s in Science Education
• Researching the Wireless High School
• Rethinking How To Teach Energy: Laying the Foundations in Elementary School
• Revolutionizing Earth System Science Education for the 21st Century
• RODES Workshop
• Save the Redwoods League Evaluation
• Scaling Up TRIAD
• Science After School Conference
• Science Online: Master's in Science Education Degree Program
• Scratch Girls
• Search for Extraterrestrial Life Museum Exhibit
• Seasons of Change
• Second Conference on the Revolution in Earth Science Education
• Shared Signing Science Planning Project
• Signing Earth Science Dictionary
• Signing Math Dictionary
• Signing Math Dictionary for K-4 Learners
• Signing Science Dictionary
• Space Science Careers: Building Hinode XRT, A Space X-Ray Telescope
• Spanish Mixing in Math (MiM) IBM
• SparkSense
• Statistics for Action
• Student/Scientist Partnership for Fossil Research
• Supporting and Understanding Sustainability in Local Systemic Change
• Tabletop 2 — Foundational Tools for Data Literacy
• Talk Science
• Targeted Research for a Serious Games NSDL Pathway
• Teachers for a New Era
• Teaching to the Big Ideas of Early Algebra
• Technology in Support of District-Wide Instructional Improvement
• The Atlantic Partnership for the Biological Sciences
• The Inquiry Project
• The Ocean in Our Backyard
• TIAN: Teachers Investigating Adult Numeracy
• Time to Enhance Math in After-School
• Transforming Instruction by Design in Earth Science (TIDES)
• Transition to Algebra Evaluation
• Try Science Online
• Under the Microscope: Examining the Research Base on Biological Lab Experiences
• Using Data for Informed Decisions
• Using EarthScope Data in Secondary Classrooms
• Vanished: A Curated Game Evaluation
• VideoPaper Web Site/Tutorial
• VISOR: Visualizing Statistical Relationships
• Windows on Earth
• Windows on Earth: CASIS
• Women's Science Equity Online