R&D Projects

Browse Open Projects

- Adopting Research-based Instructional Strategies for Enhancing STEM Education (ARISE)
- All Included in Mathematics–Expansion and Dissemination (AIM-ED)
- Biocomplexity and the Habitable Planet
- Biocomplexity-Transforming Innovative High School Curriculum
- Building Systems from Scratch
- CIMBLE: Conference on Integrating Math into Informal Building Learning Environments (Math in the Making)
- Confronting the Challenges of Climate Literacy
- Creating a Virtual Infrastructure for Engaging Rural Youth in STEM Disciplines
- Creative Robotics
- Design Dimensions
- Designing Biomimetic Robots
- 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
- Make Connections: You and Me and Math
- MSPnet III
- 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
- Zoo and Aquarium Research Collaborative (ZAARC)
- 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
- Aguá, 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 Toolbox
• Earth Exploration Toolbox Workshops
• Earth Exploration Toolkit Workshops
• 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 InnovateTE3: 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
MSPnet: 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
NEIRTEC
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
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 Pictionary for K-4 Learners
Signing Science Pictionary
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