New York State Education Department

NY ECLIPSE

New York Enhancing Collaborative Leadership for Improved Performance in Science Education
National & International Context

- The scientific and technological foundations to our economic leadership are eroding when those of other nations are gathering strength. Source: “Rising Above the Gathering Storm” (National Academies, 2005)

- The U.S. is last in the world in terms of international comparisons of student performance in science. Source: Third International Mathematics and Science Study (TIMSS, 2004)
NYSED
Science Initiative

Mission:

Create a statewide learning community to support student achievement of the learning standards in science, leading to a scientifically literate population.
NYSED
Science Initiative

Vision:

Ensure the learning of science for all PreK-12 students by providing equitable access to exemplary teachers, inquiry-centered curriculum and instruction, standards-based assessments, and a wealth of resources and community support.
NYSED
Goals of the Science Initiative

- Improve student achievement in science
- Elevate the importance of science education
- Provide leadership and assistance in science education reform
- Enhance professional development for teachers
- Encourage community members to build capacity
State Science Initiative

- New York State Science Initiative

  http://www.emsc.nysed.gov/ciai/mst/sciinit.doc

- Statewide Strategic Plan for Science

  http://www.emsc.nysed.gov/ciai/mst/sciplan.html
New York ECLIPSE
in Partnership with the
National Science Resources Center

- National Science Resources Center (NSRC)
  - http://www.nsrconline.org

- Partnership Commitment

- Priority Target: Large Urban Centers
NSRC Science Education Reform

Theory of Action

- Increased Student Achievement
- Improved Instruction
- Establishment of School District Infrastructure
- Development of Vision of Effective Science Learning and Teaching
- Knowledge of Research and Best Practices

New York State Education Department
NSRC Science Education Systemic Reform Model for the Establishment of School District Infrastructure

Vision of Effective Science Learning and Teaching

- Professional Development
- Research-based Curriculum
- Administrative and Community Support
- Assessment
- Science Materials Support
New York ECLIPSE
Major Events

- Leadership Conference:
  - Build Awareness with Key Leaders and Stakeholders

- Science Education Curriculum Showcase

- Science Education Strategic Planning Institute

- Leadership Conference:
  - Build Capacity with Key Leaders and Stakeholders
New York ECLIPSE
Value Added

➢ Science Education Curriculum Toolkit
  Assist in assessing current curriculum programming and alignment to learning standards
  Resources to review and select exemplary curricula and instructional materials

➢ Ongoing Technical Assistance
  Establish and sustain National, state and regional network
District-Level Leadership Commitment

- Select, support, and sustain a NY ECLIPSE Leadership Team using established criteria

- Secure team members participation in all NY ECLIPSE events.

- Support implementation of inquiry-centered science curriculum resources.

- Continue supportive partnership with NYSED science leaders.