



On the Web

Located at www.mste.uiuc.edu, the MSTE website offers a variety of educational content to stimulate mathematical and scientific thinking, including middle to high school level math lessons using web-based applets, spreadsheets, dynamic geometry, and the object-oriented programming language Squeak. These resources are free, open to the public, and allow students of all ages to experiment with the mathematics, technologies, and scientific concepts that increasingly shape our lives.



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Office for Mathematics, Science,
and Technology Education

*Integrated learning
in mathematics,
science, and
technology*



A Division of the College of Education
University of Illinois at Urbana-Champaign

At MSTE, we are committed to enhancing the quality of mathematics and science education, and to improving the performance of all students in these areas. To accomplish this, we work directly with administrators, teachers, parents, and students. Our integrated approach – teaching mathematical and scientific concepts in technology-intensive environments – helps students develop the essential skills for an age increasingly focused on the use and development of mathematics, science, and technology.

About MSTE



Among our many services, we offer evaluation of mathematics and science programs, consultation on how to improve curricula, workshops and classes for the professional development of K-12 teachers, a host of web-based resources, and a wealth of support and resources for educators, parents, and students. To find out more about MSTE please feel free to contact us.

Projects & Partnerships



The goal of SqueakCMI is to help teachers and students of all ages to learn to use Squeak, and to ignite enthusiasm for expressing ideas using the language of the computer. Ideas forming or formed: of fact, of fiction, of curiosity about the unknown, and the knowable.

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“The Power of Wind” is a joint effort of MSTE, the University of Illinois College of Engineering, the 4H Youth Development Program, and University of Illinois Extension.



The Power of Wind



Students are introduced to engineering and design concepts while learning about wind and its uses for producing energy and doing work. The curriculum is aligned to National Standards in Mathematics and Science, and stresses learning by doing — testing, reflecting, and revising — to develop the critical and creative skills designed to last a lifetime.



AIMS is a professional development project for mathematics and science teachers. Its goals are to improve the expertise and teaching skills of mathematics and science teachers, to promote understanding and application of the latest research relevant to mathematics and science education, and to thereby have a positive impact on student achievement in mathematics and science.

MSTE collaborates with the Information Trust Institute (ITI) to create classroom-ready resources designed for middle and high school students. These lessons



TCIP: Trustworthy Cyber Infrastructure for the Power Grid



illustrate important concepts in the science and mathematics of electricity, energy conservation, and the power grid. Lessons are available at <http://tcip.mste.uiuc.edu>.

