

Participating in a Science Fair Benefits Students!

- * If students are interested, they will learn and excel.
- * A Science Fair has the potential to get students interested in science, engineering and mathematics.
 - * Science Fairs can make science relevant to a student
 - * Limited by student's imagination
 - * Ideas can come from a student's personal environment, current events and hobbies
- * We all learn in different ways
 - * Research can appeal to one's natural curiosity
 - * Story of student who tested efficiency of different grades of gasoline
- * We all can make a difference
 - * Story of student who devised an improved exit strategy
 - * Building Steel Insulation
- * The work involved in creating a science fair project develops and reinforces successful work and life skills
 - * Teamwork, Time Management, Responsibility, Discipline, Ethics, Organizational Skills, interviewing, communication, working with mentors
- * Participating in a Science Fair is a great for a student's confidence.
- * Science fairs can be a venue for students to network with others in their field of interest
- * Students can win funds for college
- * Participating in a Science Fair is a hands-on experience, a very important aspect of learning science.
- * Science and engineering and mathematics are a human endeavor

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- * The work a student performs in creating a science fair project correlates well to educational recommendations defined in National Science Education Standards
- * What is the National Science Education Standard (NSES)?
 - * Designed to enable the nation to achieve the goal of having all students scientifically literate.
 - * Premised on the conviction that all students deserve and must have the opportunity to become scientifically literate
 - * It is our countries best model for excellence in educating our K-12 students in science
 - * It was created by scientists, teachers, other educators, and 22 science education and scientific organizations.
 - * Over 18,000 individuals and 22 science education and scientific organizations contributed
 - * Released by National Research Council (NRC) in 1995 (Board members from the NAS, NAE, IM)
 - * Funded by NSF, US Department of Education, NASA, NIH, NAS and others.
 - * Points towards a destination and provides a roadmap of how to get there
 - * Hallmark of our educational system is local control and autonomy

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- * Student participation in science fairs correlates well to the recommendations in NSES. Science fairs bring many aspects of the standard to life.
- * NSES promotes a number of approaches and activities to learning science, all of which are inherent to participating in a science fair:
 - * Emphasizes an Inquiry-based model for learning science
 - * Design and Conduct Scientific Investigations
 - * Use Technology and Mathematics to Improve Investigations and Communications
 - * Formulate and Revise Scientific Explanations and Models Using Logic and Evidence
 - * Recognize and Analyze Alternative Explanations and Models
 - * Communicate and Defend a Scientific Argument
 - * Identify Questions and Concepts that Guide Scientific Investigation
 - * Incorporate a multidisciplinary approach to teaching science
 - Narrative writing, comparing and contrasting main idea, recognizing cause and effect
 - Oral presentation, history, synthesizing information and drawing conclusions