



ACADEMY OF
APPLIED SCIENCE

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The Academy of Applied Science (AAS), founded in 1963, is a private non-profit, tax exempt organization chartered to increase awareness and participation in STEM (Science, Technology, Engineering, and Math) and the invention process. AAS administers STEM programs where students apply scientific knowledge to life by hands-on research, experimentation and invention.

AAS encourages students to enter and continue in STEM careers through these sequential programs:

COMPETITIONS

KINDERGARTEN – EIGHTH GRADE:

Young Inventors' Program® (YIP) – a K-8 hands-on project-based invention competition.

HIGH SCHOOL:

Junior Science and Humanities Symposium (JSHS) – a nationwide high school independent research competition.

EXPERIMENTAL EDUCATION

HIGH SCHOOL:

Research and Engineering Apprenticeship Program (REAP) – a summer internship program for under-represented and under-served high school students.

High School Apprenticeship Program (HSAP) – a summer internship program to expose new students to research opportunities in the sponsored laboratory.

COLLEGE:

Undergraduate Research Apprenticeship Program (URAP) – a program that provides undergraduate students with an authentic science and engineering research experience alongside university researchers.

College Qualified Leaders (CQL) – a 6 month work study program that matches practicing DoD scientists with talented college students creating a direct mentor-student relationship.



Schools participating in the Young Inventors' Program®

- Clark-Wilkins Elementary, Amherst*
- Barrington Elementary School, Barrington*
- Peter Woodbury School, Bedford*
- Riddle Brook School, Bedford*
- Memorial Elementary School, Bedford*
- Belmont Elementary School, Belmont*
- Bow Elementary School, Bow*
- Bow Memorial School, Bow*
- Broken Ground Elementary School, Concord*
- Danville Elementary School, Danville*
- Ernest P. Barka Elementary School, Derry*
- St. Mary Academy, Dover*
- Horne Street Elementary School, Dover*
- Woodman Park Elementary School, Dover*
- Gilmanton School, Gilmanton Iron Works*
- Greenland Central School, Greenland*
- Ray School, Hanover*
- Reeds Ferry School, Merrimack*
- Thorntons Ferry School, Merrimack*
- Infant Jesus School, Nashua*
- World Academy, Nashua*
- Lin-Wood Elementary School, Lincoln*
- Southwick School, Northfield*
- Pollard School, Plaistow*
- Rollinsford Grade School, Rollinsford*
- Sanbornton Central School, Sanbornton*
- Sandown Central School, Sandown*
- Sandown North Elementary School, Sandown*
- Center Woods Elementary School, Weare*

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Fueling the Spark of Genius

Remember the spark you felt as a child when you had a great idea?



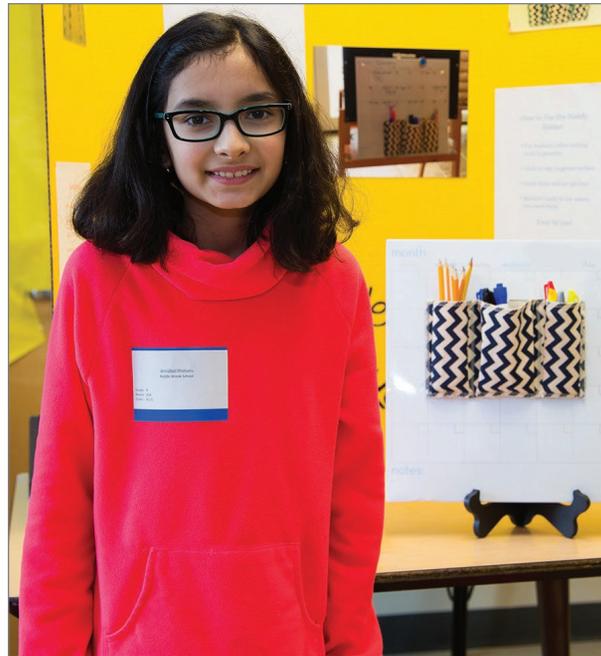


The **Young Inventors' Program**® (YIP) introduces elementary and middle school children to the skills of critical thinking and problem solving by encouraging them to create their own invention that solves a problem of their choosing.

Since 1986, more than 6,000 students each year have been introduced to STEM and the basic principles of design thinking by the introduction of the Young Inventors Program into the K -8 curriculum or afterschool programs.

Participating teachers are given a YIP Kit, which is a box containing all of the materials needed to implement the program. Students exhibit their results at a school Invention Convention at which the best inventions are selected to represent the school at the Regional Invention Convention.

As a program of the Academy of Applied Science (AAS), we support participating schools with teacher training and introductions to community members and industry representatives that serve as judges at the school and regional competitions.



The Young Inventors' Program's project-based approach has been beneficial to students of all abilities and learning styles. It has proven to be an enriching experience not only for students who excel academically, but also for students that have challenges with learning in the traditional classroom setting. In fact, it is these academically challenged students that have developed many of the most ingenious inventions.



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Why should your school participate?

The Young Inventors' Program®...

- Supports the recommendations of the Governor's Task Force on K-12 STEM Education and existing School District STEM objectives.
- Provides foundation for subsequent STEM education in middle and high school.
- Integrates seamlessly into current curriculum and easy to implement.
- Offers a free set of resources, training and consultation for teachers.
- Helps to inspire more young ladies and underrepresented populations to consider STEM!
- Boasts 30 years of success inspiring learners!

