Reading, writing, arithmetic (and science)

Science Olympiad is a national non-profit organization dedicated to improving the quality of K-12 science education, increasing male, female and minority interest in science, creating a technologically-literate workforce and providing recognition for outstanding achievement by both students and teachers. These goals are achieved by participating in Science Olympiad tournaments and non-competitive events, incorporating Science Olympiad into classroom curriculum and attending teacher training institutes.

In Mission Possible, teams build a device that incorporates energy transfers from simple machines to perform a specific task; in this case, to unfurl a roll of toilet paper.

A researcher in the jungles of Panama studies a golden frog and remembers her favorite middle school Science Olympiad event, Amphibians and Reptiles. A high school science teacher prepares his lessons and recalls the singular influence that led him to major in Cellular and Molecular Biology at the University of Michigan and to pursue teaching, the Science Olympiad Designer Genes event. A geotechnical engineer who attended both MIT and UC Berkeley marvels at how learning to classify more than 200 rocks, minerals and fossils when she was 13 years old led her to a career sparked by Science Olympiad.

For nearly 25 years, Science Olympiad has led a revolution in science education. In the face of shrinking college enrollment in science majors, falling science test scores and a nationwide shortage of K-12 science teachers, Science Olympiad continues to challenge, inspire and inform the academic and professional careers of students and instructors across America.

Recently featured in The Wall Street Journal, USA Today, WIRED magazine, and on Comcast’s “Education Showcase,” Science Olympiad is committed to increasing global competitiveness for the next generation of scientists.

An alternative to science fairs.

Fulfilling a desire to bring excitement to science education and competitions, Science Olympiad was founded in 1983 by educators Dr. Gerard Putz and John Cairns. After successful tournaments were held in Michigan and Delaware, the program began to attract interest from school districts all around the country. What began as a grassroots assembly of science educators has now become one of the premier science competitions in the nation. Currently, Science Olympiad has members in all 50 states, totaling more than 14,000 actively participating K-12 schools.

At the competitive level, elementary, middle and high school students with a knack for science have a chance to excel inside and outside the classroom. Secondary school teams advancing to state and national tournaments are celebrated at pep rallies, travel to major universities, make new friends and experience what it’s like to be a star in the community. One of Science Olympiad’s main goals is to bring academic competition to the same level of recognition and praise normally reserved for athletic competitions in this country.

Science Olympiad
America’s Most Exciting Team Science Competition

www.soinc.org
Alumni Notes

Of the working alumni responding to our online survey, nearly 90% said that participating in Science Olympiad had a direct impact on their career choice. Add your story under Alumni Survey at www.soinc.org.

“As a young girl, being on Science Olympiad with other girls created an important support group; together we discovered that women can succeed in the fields of engineering, math and science.”
- Vanessa Rogers, Management Consultant, IBM

“Science Olympiad helped me to learn how to work with team members, each with different skills and talents, to accomplish a mutual goal. This has been an invaluable lesson for my current line of work, where I manage the resources of many engineers and scientists to come up with a solution to challenging problems.”
- Anthony Hays, Division Manager, Michigan Aerospace Corporation

“Without my experience in Science Olympiad, I would not have majored in science and become a teacher. In both middle school and high school, my independent study in Science Olympiad gave me a passion for genetics, molecular biology and science in general. Without the inspiration of my coaches encouraging me, I would not be teaching.”
- Jennifer Dye, Teacher and Science Olympiad Coach, Pope John Paul II High School, Tennessee

Middle School Division B (Grades 6-9) and High School Division C (Grades 9-12)

Much like a football or soccer team, competitive Science Olympiad teams prepare throughout the year for tournaments. Each team is allowed to bring 15 students who may participate in a variety of events in their skill set. Practices vary from monthly meetings to weekly study sessions to daily work as tournaments near, supported by an interlocking group of peers, coaches, parents and mentors from academia and industry.

Science Olympiad competitions are like academic track meets, consisting of a series of 23 team events in each division. Each year, a portion of the events are rotated to reflect the ever-changing nature of genetics, earth science, chemistry, anatomy, physics, geology, astronomy, mechanical engineering and technology. By combining events from all disciplines, Science Olympiad encourages a wide cross-section of students to get involved. Emphasis is placed on active, hands-on, group participation. Through the Olympiad, students, teachers, coaches, principals, business leaders and parents bond together and work toward a shared goal.

Teamwork is a required skill in most scientific careers today, and Science Olympiad encourages group learning by designing events that forge alliances. Science Olympiad seeks to shatter the isolated scientist stereotype.

The prestige of winning a medal at a Science Olympiad national tournament is often a springboard to success. Individual medals as well as championship trophies for each division are awarded at tournaments. In addition, cash and tuition scholarships have been given in amounts exceeding $5 million, with some national tournament host sites offering four-year, full-ride scholarships for gold medal winners in the C division and tuition stipends for gold medalists in the B division. Some events like Chem Lab or Disease Detectives offer prizes at the national level such as calculators from Texas Instruments, trips to the Centers for Disease Control, cash awards and visits to professional conferences.
Killer apps.

To strengthen real-world application of skills and invent new ways to test the acumen of competitors, Science Olympiad invites partners from industry, trade groups and associations to design, guide and supervise events. In 2007, the Academy of Model Aeronautics (AMA) will assist with both the Balloon Launch Glider and Wright Stuff events while the Institute of Food Technologists Student Association (IFTSA) provides online study materials and mentor matching to students in the Food Science event.

These partners, along with many more, provide volunteers and invaluable expertise to teams, state Science Olympiad organizations and regional competitions. Many corporations find that Science Olympiad is an excellent source of students vitally interested in a specific sub-field, such as molecular genetics, and can offer career guidance to a target audience.

Crunch the numbers.

More than 5,000 middle and high schools participate in Science Olympiad. With up to 30 participating students per school, that's 150,000 kids — now multiply that number by the coaches, teachers, parents, volunteers, experts, scientists and business leaders who are involved. Toss in everyone from each host site that works at the competitions. Then add in the 9,000 elementary schools participating, including students, teachers, parents, volunteers, experts, scientists and business leaders. We estimate that in a given year, Science Olympiad reaches more than two million people.

Elementary Science Olympiad Divisions:
A1 (Grades K-3), A2 (Grades 3-6), A3 (Grades K-5)

Learning happens when students are engaged. Mix up some Vaseline, food coloring and cocoa powder and you’ve got a recipe for a session on skin and the circulatory system. Science Olympiad shows kids in elementary grades that science is fun, accessible and exciting, with more than 9,000 elementary schools in the U.S. using Science Olympiad programs last year. Some held Fun Days, where every classroom in the school becomes a hands-on science lab, or a Fun Night, where small teams rotate through events staffed by experts and teachers. Some states even host district, regional or state competitions for grades 3-6, offering events like Don’t Bug Me, Science Crime Busters, Pasta Bridge and Rock Hound.

National Science Standards
Science Olympiad events meet National Science Standards set by the National Research Council. Teachers searching for curriculum resources that illustrate standards in action have found success with Science Olympiad, for it emphasizes the close relationship between teaching and assessment. Science Olympiad highlights many of the elements of the Teaching Standards, Assessment Standards, Program Standards and Science Education System Standards.
National Tournament Sites

1985  Michigan State University
1986  Michigan State University
1987  Ohio State University
1988  Delaware State University
1989  University of Colorado, Boulder
1990  Clarion University
1991  Penn Valley Community College
1992  Auburn University
1993  University of Southern Colorado
1994  University of Arizona
1995  Indiana University
1996  Georgia Institute of Technology
1997  North Carolina State University
1998  Grand Valley State University
1999  University of Chicago
2000  Eastern Washington University
2001  University of Colorado, Colorado Springs
2002  University of Delaware
2003  Ohio State University
2004  Juniata College (pictured right)
2005  University of Illinois
2006  Indiana University
2007  Wichita State University
2008  The George Washington University, Washington, D.C.
2009  Augusta State University
2010  University of Illinois
2011  University of Wisconsin, Madison

Science Olympiad accolades and affiliations:

- Winner of Midwest Living’s Champions In Education™ Grand Prize 2005
- Winner of the 2005 SME Education Foundation Building the Future Award
- Approved by the National Association of Secondary School Principals (NASSP)
- Certified as “Best in America” by Independent Charities of America

Sponsors make our mission possible!

2007-2008 Gold Sponsors:

- Wichita State University

Silver Sponsors:

- Texas Instruments
- DuPont Center for Collaborative Research and Education
- Combined Federal Campaign (CFC)
- Centers for Disease Control and Prevention

Bronze Sponsors:

- Academy of Model Aeronautics (AMA)
- Abbott Laboratories
- Chandra X-Ray Observatory
- Delta Education
- Groundwater Foundation
- Institute of Food Technologists Student Association (IFTSA)
- Lockheed Martin
- Map Real Estate
- Midwest Products
- PITSCO
- Precision Metalforming Association (PMA)
- Society for Neuroscience (SFN)
- Terry Trippe

Membership  For a complete listing of events, state websites and tournament information, or to learn more about becoming a registered member team, please visit our website or contact us at:  www.soinc.org

Students show their creativity and Missouri state pride with a tribute to President Harry S. Truman’s famous catchphrase at the 2006 Science Olympiad National Tournament Opening Ceremony at Indiana University.