

Regional, National and International STEM Competitions and Scholarship Programs

American Mathematics Competitions Friendly mathematical contests for junior and senior HS students. <https://www.maa.org/math-competitions>

BioGENEius Challenge For high school students only; recognizes outstanding research in biotechnology. Process is state, regional, international—all held by Sanofi-Aventis. Big Cash prizes! <http://www.biotechinstitute.org/go.cfm?do=Page.View&pid=89>

Boosting Engineering, Science and Technology (BEST) In six weeks, high school or middle school student teams design and build a remote controlled robot to compete against other schools. <http://www.bestinc.org/>

Botball® Educational Robotics Program engages MS/HS students in a team-oriented robotics competition <https://www.kipr.org/botball>

Broadcom Masters Competition Top Middle School Science Research Competition: top National prize is \$25,000 scholarship, trip to Washington DC with 30 finalists. <https://student.societyforscience.org/broadcom-masters>

CA State Science Fair Over a 1,000 participants throughout the State meet in competition for awards totaling \$50,000. <http://cssf.usc.edu/>

California Envirothon students are challenged to work as a team to answer written questions and conduct hands-on projects focusing on environmental issues in five disciplines: Forestry, Wildlife, Aquatics, Soils and a current environmental issue. Regional & national competitions with awards up to \$5,000/student. <http://caenvirothon.com/>

Chemical Olympiad Multi-tiered competition for high schoolers. <https://www.acs.org/content/acs/en/education/students/highschool/olympiad.html>

Discovery Young Scientist Challenge A national science fair competition for grades 5-8. Students are nominated to take place in the DYSC by representatives at their local science fairs. 40 finalists will come to Washington for a week in October to participate in the competition finals. <http://www.youngscientistchallenge.com/>

FIRST Tech Challenge (MS) MS teams are challenged to design, build, program, and operate robots to compete in a head-to-head challenge in an alliance format. <https://www.firstinspires.org/robotics/ftc>

FIRST Robotics Competition High school teams build robotics to compete in a national competition. <https://www.firstinspires.org/robotics/frc>

Future City: National competition in which 7th and 8th graders learn and explore engineering to create a city of the future, using reality-based education software SimCity 2000. <http://futurecity.org/>

Google Science Fair: The Google Science Fair is an online science competition open to students ages 13-18 from around the globe. Top prize is a \$50,000 scholarship. <https://www.google-science-fair.com/competition/info>

iGEM (International Genetically Engineered Machine) competition Annual, world wide, synthetic biology event <https://igem.org/Competition>

Intel International Science & Engineering Fair Intel ISEF: For high school students only, who must first qualify at an affiliated fair. Top prize is a \$50,000 scholarship. <https://www.societyforscience.org/intel-international-science-and-engineering-fair>

International Bridge Building Contest High school students get a flavor of what it is to be an engineer as they design and construct model bridges. The website gives information on regional contests and starting a new affiliated contest in your area. <http://bridgecontest.phys.iit.edu/>

Junior Science and Humanities Symposium National program for HS students to compete at forty-eight regional competitions. The top finalists receive scholarships. <https://www.jshs.org/region/california-southern/>

Junior Solar Sprint Competition MS students create fastest, most interesting, and best-crafted solar-vehicle <https://www.usaeop.com/program/jss/>

Lemelson-MIT InvenTeams HS students, educators, and mentors that receive up to \$10,000 each to invent technological solutions to real-world problems of their own choosing <https://lemelson.mit.edu/inventeams>

Lemelson-MIT EurekaFest High school students from across the country who participated in InvenTeams will discuss how they moved through challenges and built an invention during their school year. <http://lemelson.mit.edu/events/eurekafest-2019>

Los Angeles County Science Fair Largest regional science fair in the west. Monetary and Special Awards for over 1,200 MS-HS students from public and private schools throughout the county <https://www.lascifair.org/>

MathCounts Competition National competition program for 7th and 8th grade students. <https://www.mathcounts.org/programs/competition-series>

MIT's THINK Scholars Program A student-run educational outreach program makes STEM R & D accessible to HS students. <https://think.mit.edu/>

NASA Human Exploration Rover Challenge Engineering design challenge to engage students worldwide in the next phase of human space exploration. <https://www.nasa.gov/roverchallenge/home/index.html>

National Association of Rocketry (NAR) Develop and construct an experimental rocket, from initial concept to completed payload. Join a NAR club in your area, start a club, compete, or integrate rocket building into your school curriculum. <https://www.nar.org/>

National Robotics Challenge MS through university: students demonstrate knowledge of robotics and manufacturing technology in regional competitions. <https://www.thenrc.org>

Odyssey of the Mind Annual competition to promote creative team-based problem solving for students from kindergarten through college in a variety of areas, from building mechanical devices to interpreting literary classics. <https://www.odysseyofthemind.com/>

Regeneron Science Talent Search HS students compete with independent research projects in this prestigious competition. 10 top scholarship winners are chosen in April with a \$100,000 scholarship as the top prize. <https://www.societyforscience.org/regeneron-science-talent-search>

Siemens STEM Day K-12 activities, pathways to STEM - chance for \$10,000 grant for school <https://www.siemensstemday.com/>

Southern California Science Olympiad Rigorous academic interscholastic competitions that consist of a series of individual and team events which students prepare for during the year. The competitions follow the format of popular board games, TV shows and athletic games. Regional and state tournaments with awards <http://www.socalstatescioly.org/>

Stockholm Jr. Water Prize World's most prestigious youth award for a water-related science project <https://wef.org/resources/for-the-public/SJWP/>

Underwater Remotely Operated Vehicle (ROV) Competition The Marine Advanced Technological Education (MATE) Center and the Marine Technology Society (MTS) sponsor an underwater ROV design and building competition for high school and college students. <http://www.marinetech.org>

USA Computing Olympiad Individual HS students compete in Internet competitions; compete for a place on the U.S. Team. <http://www.usaco.org/>

VEX Robotics Competition Largest, fastest growing MS/HS robotics program globally <https://www.roboticseducation.org/competition-teams/vex-robotics-competition>

Zero Robotics Programming competition where robots are SPHERES (*Synchronized Position Hold Engage and Reorient Experimental Satellites*) inside the *International Space Station*. MS/HS participants compete to win a technically challenging game by programming their strategies into the SPHERES satellites. <http://zerorobotics.mit.edu/>