



# Essential Education

Science, Technology, Engineering, and Math (STEM) education is essential to the environment, America's health, security, and economic competitiveness, and it is the belief of Science from Scientists that it is their obligation to empower future generations with the tools and knowledge they will need to solve the global problems they will inherit.

According to the Council of Advisors on Science and Technology, the U.S. is not producing enough STEM undergraduate degrees to match the forecasted demand for STEM professionals. Lack of content, competency and low interest in STEM are drivers of this workforce gap. To address this gap, Dr. Erika Ebbel Angle, a San Mateo native and graduate of the Massachusetts Institute of Technology with a doctorate in biochemistry from Boston University School of Medicine, founded Science from Scientists in 2002. Their mission is to give all students the opportunity to experience the excitement of doing real experiments, making real discoveries and appreciating how amazing our world is, regardless of gender, ethnicity or means.

This year, the organization will deliver STEM programming to over 10,000 students across Massachusetts, California and Minnesota. And, Dr. Angle has never forgotten her San Mateo roots. In 2014 a California office was established in San Mateo, and this year their STEM programs will serve over 3,000 students in 21 schools from Brisbane/Pacifica to San Jose, including two elementary schools in Foster City and four in San Mateo. Two-thirds of these partner schools serve the under-resourced student population.

The impact that Science from Scientists' STEM Enrichment programming has made within the communities served is not only metrics-measurable but has created an ongoing positive influence on students, parents, teachers, principals, school district personnel and valuable advocates and funders. Over 85% of partner schools renew the program year after year. Local corporations and foundations concerned about students' aptitude and attitude regarding STEM literacy have stepped up to offer support to Science from Scientists throughout San Mateo County. Donors remain engaged with the organization by attending classroom observations, serving as guest instructors, joining their local Advisory Council, participating in local city and school activities such as STEMFests and Career Days as well even assisting with the maintenance and replenishment of lesson plan materials and supplies as a group volunteer event.

Youth ages 8 through 13 are curious, still eager to learn and just beginning to ponder their future careers. Science from Scientists offers interactive, exciting, informative lesson plans meeting all federal, state and local educational frameworks, from a library of over 100 different STEM topics selected by classroom teachers. Students watch and learn from two expert instructors along with their own teacher, participating in activities and student-centered discussions. The same two expert instructors visit their partner schools throughout the entire academic year, 18 separate visits, each visit teaching a different STEM subject. Included are all materials and supplies for each lesson so every student participates both individually and in small groups. Classes are held during school hours so that every student in each class can participate.

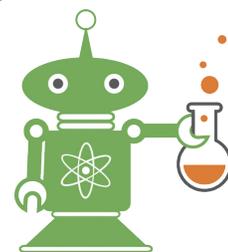
While there are other niche STEM Programs available locally and nationally, few compare to Science from Scientists' vast portfolio of lesson topics, with two real, charismatic experts (scientists, engineers or tech professionals) as instructors, teaching the same small classrooms of students, during school hours, including all materials, every other week over a nine-month span (18 visits).

When each school year ends, students feel their instructors have become friends, mentors and genuine positive role models. Many students have never met a "real scientist" before, and as they come to know their instructors throughout the year they realize the instructors are regular people, just like them, and maybe THEY could become a scientist too!

*It's a long way from 5th grade to an impactful STEM career, but when the staff and instructors see students so eager for more STEM, they know they have met the challenge and students are on the path to success.*



To learn more about Science from Scientists – how to get the program at your child's school, volunteer opportunities for local businesses, class observation schedules, details regarding lesson plans or instructors or funding benefits, visit the website [sciencefromscientists.org](http://sciencefromscientists.org)



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