Imagine classrooms, each with 5 STEM professionals engaging children in authentic, hands-on science activities, every month of the school year, every year of the student's elementary school career. Invite strong role models, diverse in gender, race, and STEM expertise, united by their caring for children and a desire to excite the next generation of scientific thinkers, to supplement and support your classroom learning. By partnering with Science is Elementary you create opportunities for more experiential learning, meaningful relationships with caring mentors and deeper understanding of NGSS concepts. By working with SiE you leverage the intellectual capital of the Bay Area to the advantage of your students and expand classroom teachers' exposure to scientists and the latest in science pedagogy. Every child, not just those who can afford extracurricular experiences, deserves respectful, attentive, accurate science instruction. With SiE they get that, along with a great child to adult ratio (1:6), and inter-generational learning opportunities, both with adult scientists, engineers and mathematicians as well as with students of different ages through facilitated collaboration and learning between younger and older students.

## MAKE YOUR SCHOOL A PLACE WHERE **SCIENCE IS ELEMENTARY!**



elementaryschoolscience.org

over a longer period of time."<sup>4</sup>

<sup>1</sup> Bradberry, National Center for Women & Information Technology, NSF (http://www.nsf.gov/discoveries/disc\_ summ.jsp?cntn\_id=133580&org=NSF)

(Johnson, Maruyama, Johnson, Nelson, & Skon, 1981)

<sup>4</sup> Himanshu Jain, professor of materials science,

Mentoring Partnership

<sup>3</sup> 2014, The Mentoring Effect, Young People's Perspectives on the outcomes and Availability of Mentoring, The National

Lehigh University National Science Foundation website 2015

## **OUR VISION:** ALL CHILDREN KNOW THAT SCIENCE IS AWESOME AND USE ITS PRINCIPLES TO **BETTER THEIR LIVES**





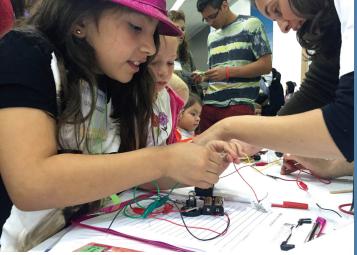
"Wonder is the beginning of wisdom." SOCRATES





"In the long history of humankind (animal kind too) those who learned to collaborate and improvise most effectively have prevailed."

CHARLES DARWIN



"Girls represent a valuable, mostly untapped, talent pool, and their lack of participation has serious consequences for the future of technical innovation."<sup>1</sup>



"We become what we behold. We **shape our tools**, and thereafter our **tools shape us**."

MARSHALL MCLUHAN

"An analysis of 122 studies on **cooperative learning** revealed more students learn more material when they work together...they are more motivated and are more positive about the subject...the teacher and themselves as learners...and are more accepting of each other (male or female, handicapped or not, bright or struggling, or from different ethnic backgrounds) when they work together."<sup>2</sup>



"45% of at risk youth with mentors are in enrolled in post secondary education as opposed to 29% who never had a mentor."<sup>3</sup>