



SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

Focusing on their Future

STEM Education is important because it encompasses every part of our lives. Science is all around us, technology is expanding into every aspect of our lives, engineering is the basic designs of our homes and cities, but also tackles our environmental challenges and mathematics is in every job, and every activity we do in our lives. Boys & Girls Club STEM programs bridge the gap between STEM and real world scenarios focusing on hands on, project based learning for students to explore the different disciplines of STEM helping to build excellent soft skills in the "four Cs"— collaboration, critical thinking, creativity, and communication. We are committed to preparing youth to be competitive in a workforce that is increasingly reliant on science and technology.



Boys & Girls Clubs Build Lifelong Skills

- 🎯 Enhances Problem-Solving Skills
- 🎯 Greater Understanding of Concepts
- 🎯 Instills Creativity, Curiosity and Innovation
- 🎯 Teaches Teamwork, Collaboration and Communication
- 🎯 Encourages Risk Taking
- 🎯 Teaches Failure, Reflection and Perseverance
- 🎯 Builds Grit and Determination
- 🎯 Networking with Community Partners
- 🎯 Fosters a Love of Learning

STEM jobs are projected to grow 13%.
Between 2017 and 2027, the number of STEM jobs will grow 13%, compared to 9% for non-STEM jobs - with positions in computing, engineering, and advanced manufacturing leading the way.

The Challenges Ahead

America consistently ranks poorly against its global classmates in STEM subjects, placing 25th in math and 17th in science out of 31 countries ranked by the Organization for Economic Cooperation and Development. Only about 18 percent of high school seniors perform at or above proficiency in science subjects, according to the National Math and Science Initiative. These alarming numbers show we're falling behind the rest of the world in terms of innovation, and the U.S. is losing jobs as companies are being forced to hire overseas workers for STEM projects. STEM is important to the success of our children. STEM is an economic driver that presents opportunities today and in ways we can't even imagine in the future. We need to prioritize developing more people to be ready to meet such opportunity.

Participating Club youth reported in their post-surveys that STEM programs helped them:

- ✓ 97% understand the connection between their education and future
- ✓ 91% introduced to new ideas and strategies they will use now and in the future
- ✓ 92% with tools to be productive in the workforce
- ✓ 85% discover their career goals

