Motivating Youth to Embrace Science!
The U.S. ranks behind 19 other countries in science literacy.
Over the past decade, STEM jobs have grown at a rate 3 times faster than non-STEM jobs.
17% Increase in STEM jobs from 2008 to 2018

9.8% Increase in non-STEM jobs from 2008 to 2018

Source: http://www.esa.doc.gov/Reports/stem-good-jobs-now-and-future
Where are the STEM Students?

National STEM Interest and Proficiency 8th-12th graders
15.2% Not Proficient But Interested

17.3% Proficient And Interested

42.1% Not Proficient And Not Interested

25.4% Proficient But Not Interested

Business Higher Education Foundation Report
82.7% of students in high school are either Not Proficient or Not Interested in STEM
A unique and bold solution

SCIENCE
FROM SCIENTISTS
1. Increase the number of students who WANT to pursue STEM degrees

2. Help students to LIKE STEM

   Charismatic, role model scientists as instructors

   Engaging material that is exciting to students

Attitude
Improve STEM competency of students so that they are globally competitive and do not fall behind.

Improve MCAS scores over multiple years (+25%)

Pre/post test assessments show increased knowledge.
Mission

Improve the **attitudes** and **aptitudes** of 4-8 graders in STEM subjects thereby increasing the number of students pursuing STEM careers
During School
Measurable Impact
Massachusetts State Endorsed
Easton STEAM Education Team

- Teacher and administrators
- Town government
- Parents and graduates
- Town partners (Children’s Museum, NRT, Ames Library, YMCA, Cultural Council)
- Regional and business partners (SE STEM Network, North Easton Machine, Johnson and Johnson, Stonehill)
2015-2016 Donors

- Stonehill
- FEEE
- Ameresco
- Woodard and Curran
- Whelan Associates
EMS – Grade 6

- Teamwork & Cooperation
- Communication
- Problem Solving
- Inquiry
- Critical Thinking
- Perseverance
Teacher Survey Results - Fall 2015

How influential is the program at increasing your students’ aptitudes and attitudes towards science?

◆ VERY influential for both

“While this program is wonderful for the students, it is even more so for the teachers”

—Teacher, Easton MS
Teacher and Student Feedback

ECAT – Keough’s Corner:
https://youtu.be/VcfSyM7LLAM