





# 2018 Evaluation Report for Bay Area Community Resources Marin Learning and Enrichment After School Program



## University of California

Agriculture and Natural Resources | 4-H Youth Development Program

In February and May 2018, BACR LEAP surveyed 4th, 5th, and 8th grade students (total 290; 55% boys and 43% girls) for their attitudes and self-perceptions around science, technology, engineering, and mathematics. Report compiled June 2018 by Steven Worker, PhD, 4-H Youth Development Advisor, smworker@ucanr.edu.

Science	Technology	Engineering	Mathematics
<p>77% like science.</p> <p>80% believe science will be important in their future.</p> <p>48% believe they are good at science.</p>	<p>83% get excited about new technology discoveries.</p> <p>80% want to learn more about technology.</p>	<p>70% like engineering.</p> <p>86% like to see how things are made or invented.</p> <p>71% like to build or construct things.</p>	<p>81% like math.</p> <p>73% believe they are good at math.</p>
<h3>Comparing STEM Side-by-Side</h3> <p>With 0% where a student selected "Strongly Disagree" and 100% where a student selected all "Strongly Agree" to all questions.</p>			
<p>59% for science</p> 	<p>67% for technology</p> 	<p>63% for engineering</p> 	<p>68% for math</p> 

### Skills

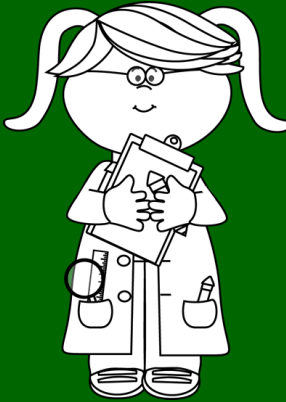
<p>32% can usually or always use data to create a graph for presentation to others. (56% can sometimes)</p>	<p>32% can usually or always create a display to communicate data and observations. (47% can sometimes)</p>
<p>28% can usually or always identify engineering problems. (54% can sometimes)</p>	<p>34% can usually or always generate ideas and possible solutions. (51% can sometimes)</p>

### Gender Bias

Girls can be as good in science careers as boys can.  
68% of boys agree  
85% of girls agree

Girls can make important scientific discoveries.  
68% of boys agree  
85% of girls agree

Girls have less need to study math and science than boys do.  
19% of boys agree  
32% of girls agree



### Behaviors

<p>42% browse internet sites which deal with STEM.</p>	<p>46% talk to friends, parents, or other people about STEM.</p>
--	--

## Comparison to National Assessment of Educational Progress 2015 Science

