

Developing 21st Century Skills

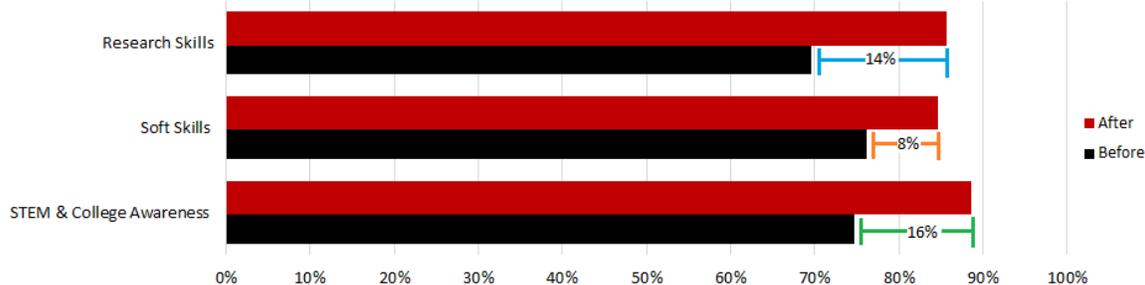
Program Impact Summary - 2019

The Center for STEM Education measures YSP impact on students in three regions: **research skills**, **soft skills**, and **STEM and college awareness**. These are based on the **Engineering Competency Model**, a joint initiative by the U.S. Department of Labor and the American Association of Engineering Societies.

Research skills are technical abilities that students can develop and utilize when exploring and researching scientific questions.

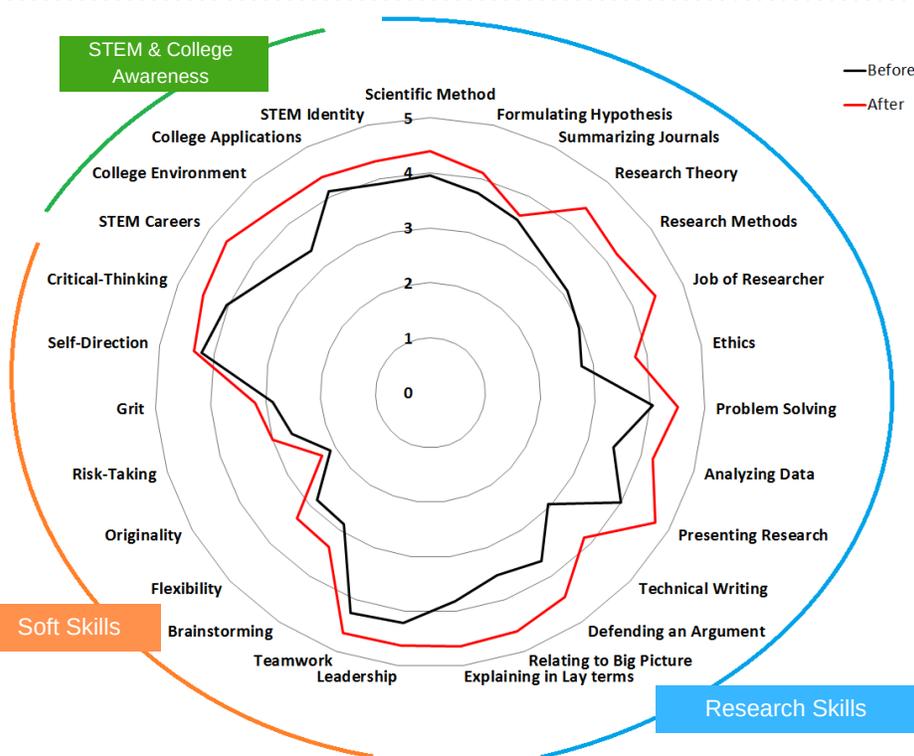
Soft skills are students' personal qualities required to adapt and improve in the work environment.

STEM and college awareness is based on student's knowledge and confidence regarding STEM career options, college applications, and college life.



13%

average increase in all three regions of impact!



I would say the most rewarding aspect is the fact that what you accomplish during your six weeks is actually contributing to a greater goal. Unlike school...the research you get to participate in at YSP is something that matters.

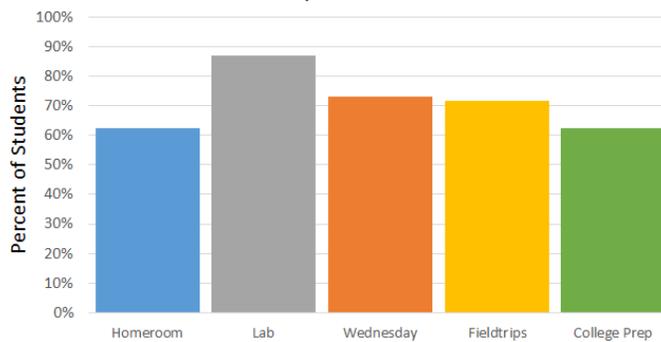
- 2019 YSP Participant

IMPACT ON UNDERSTANDING AND CONFIDENCE OF STUDENTS

Statement	% Positive Change
I understand the job of a researcher	51%
I can identify appropriate research methods and designs	43%
Setbacks don't discourage me, I work hard to find a solution on my own	15%
I can relate research results to the "Bigger Picture"	31%
I have a strong sense of belonging in the community of engineers or scientists	23%

% POSITIVE CHANGE

Activity Satisfaction



The figure above represents the percentage of participants who indicated an offered activity was **above average to highly** valuable.