

2020 Girls – STEM Clubs for Girls in the Lansing Area

2020 Girls by the Numbers, 2013-14

Locations

4

- Mt. Hope Elementary
- Pleasant View Magnet School
- Eastern High School
(7th and 8th grade only)
- Foster Community Center
(summer only)

Students Served

83

- 15 students at Mt. Hope
- 14 students at Pleasant View
- 11 students at Eastern
- 43 students at Foster Center

Number of clubs and camps

8

- 3 clubs at Lansing School
District locations
- 5 camps at the Foster
Community Center

About MCWT

Michigan Council of Women in Technology (MCWT) is a progressive organization that inspires and supports women as they enter, advance, and contribute to Michigan's technology community.

About ITEC

A Lansing-based non-profit organization, the Information Technology Empowerment Center works with students and families in Michigan to build excitement for coursework and careers in science, technology, engineering and math.

Program Summary

2020 Girls is an afterschool science, technology, engineering, and math (STEM) club offered to students from grades 4-8 at locations in the Lansing School District and the Foster Community Center. Girls participate in collaborative projects involving Lego Robotics (using the



Lego Mindstorms software), Mobile Application Design (using MIT App Inventor), and Computer Programming (using MIT Scratch) with the ultimate goal of providing engagement in STEM content and careers. Classrooms are designed to

be encouraging to girls, with female instructors leading lessons, field trips, and female STEM mentors.

Students in Lansing School District locations met weekly for one to two and a half hours, with the clubs running 6-7 weeks. Students at 2020 Girls at the Foster Community Center attended five 7-hour days, with breaks for meals and outdoor recreational activities.

Program History

Developed with the support of the Women's Leadership Council of the Capital Area United Way, 2020 Girls was designed to bridge the gender gap in STEM disciplines. In the spring of 2014, ITEC and MCWT



introduced the 2020 Girls program in the form of after-school clubs at Eastern High School, Mt. Hope Elementary School, and Pleasant View Middle School. In summer 2014 ITEC offered week-long 2020 Girls camps at the Foster Community Center with support from 100 Women Who Care.

“I wanted to say thank you for offering this to the girls. My daughter was so excited to take this class and she had a great time and learned so much. It was a wonderful opportunity and we were very grateful that it was offered to the group.”

Please pass on our thanks to everyone involved in the program. Those girls were filled with excitement and confidence in the world of science, robots, and computers, and that was wonderful to see! You should all be proud of a successful year!”

Katherine VanZwoll

Mother to Jordan VanZwoll,
Participant in 2020 Girls at
Mt. Hope Elementary

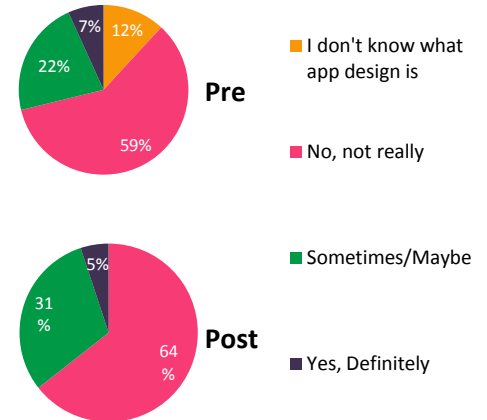
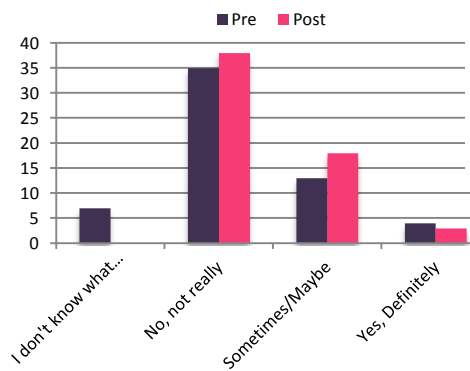
For more information
contact ITEC at
517-708-4390
or email
info@iteclansing.org

Program Results

Student Attitudes

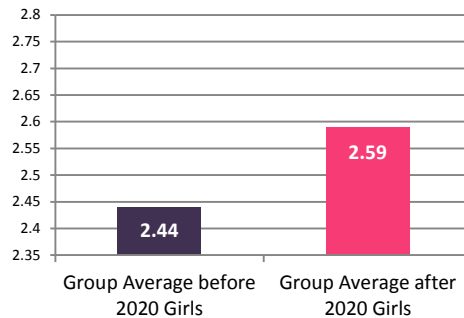
In surveys collected from participants at all 2020 Girls locations students responded positively to the curriculum, reporting confidence gains in their ability to pursue a STEM career, and increased interest in math and science following the completion of the club/camp.

I think app design is too difficult for me to do as a career



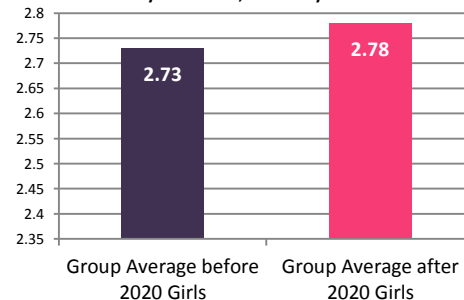
How interested are you in math?

1 = Not very interested, 2 = Kind of interested, 3 = Pretty interested, 4 = Really interested



How interested are you in science?

1 = Not very interested, 2 = Kind of interested, 3 = Pretty interested, 4 = Really interested



Student Feedback

What would you say to someone thinking about taking this class?

“go ahead and do it's food for the brain”

- Deanna B., Grade 5

“I would tell them it's awesome and has good educating work”

- Honorine A., Grade 4

“you should try it its awesome I know you will love it, trust me.”

- Jhamani J., Grade 5

What changes would make 2020 Girls better?

“Is if we had it everyday”

- Lichelle T., Grade 5