



# STEM x Play Pilot Program 2019 Outcomes

**Pilot program participants:** **448** students **5** schools **18** teachers

Over 8 weeks, teams of students solved curriculum-related problems, using design thinking and STEM skills to prototype solutions.

## Interest and confidence in STEM

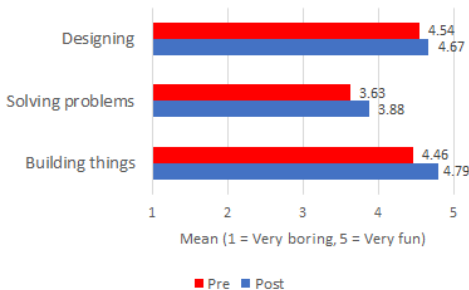
Girls significantly increased their interest and confidence in building things, closing the gender gap.

Most interesting part of the program:

**Building**

What students want to do more of:

**Coding**



*"After the program I noticed most of the students were competent to fiddle and experiment. Even if you fail, the repercussions are minor."*

– Teacher, 2019

*"The program has increased my daughter's interest in STEM projects and increased the ability of critical thinking."*

– Parent, 2019



# STEM skills of students and teachers

*"The students' skills have jumped a lot ... It never would've happened if you hadn't come in, we wouldn't have been that adventurous. We now know we can go big."*

- Teacher, 2019

*"Those in the lower quarter were able to apply themselves differently to normal and showed improvements in a variety of areas. They built up their confidence with STEM and the resources provided to them."*

- Teacher, 2019

*"Before the program our teachers didn't know as much about STEM but now they've learnt and we all know what we are doing so it's just 'get a robot, get a partner and go'".*

- Boy participant, 2019



## Perceptions of STEM

### How have your ideas of STEM changed?

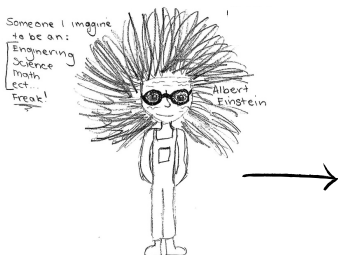
*"There are lots of problems in this world that engineers have to solve. Coding can be used for anything."*

- Girl participant, 2019

*"I thought it was male dominant but it shows all those people but it is not male dominant any more"*

- Girl participant, 2019

### Before the program



### After the program

