“EVERY GIRL DESERVES TO TAKE PART IN CREATING THE TECHNOLOGY THAT WILL CHANGE OUR WORLD, AND CHANGE WHO RUNS IT.”

- Malala Yousefzai, co-winner of the 2014 Nobel Peace Prize
WHAT IS SCITECH?

- **STEM**
- High risk students, high impact program
- Weekly afterschool meetings
  - 20-30 participants per school
  - One school per day
- Girls only
WHAT DO THEY LEARN?

- Technology
  - Coding, 3D printing...

- Engineering
  - Design process, power tools, project management...

- Physics

- Chemistry

- Life Science

- Earth Science

- SPACE!

- ...and more!
SCITECH PLEDGE

As a SciTech Girl, I try my best every day. I never give up. I speak my mind.
I am creative. I am powerful. I am independent and I am confident.
I am curious and I am brave. I am caring and I am helpful.

As a SciTech Girl, I am allowed to have bad days.
I am allowed to be confused by things and feel frustrated.
I am allowed to make mistakes.

As a SciTech Girl, I am the best scientist, engineer, leader, and friend I can be.
WHAT IS A SCIENTIST?
DRAW A SCIENTIST

- Part 1: In the space below, please draw a scientist at work.
- Part 2: Label 3 or more parts of your drawing.
Part 1. In the space below, please draw a scientist at work.

Part 2. Label 3 or more parts of your drawing.

- I drew a woman as a scientist.
- She is making a robot use lightwaves.
- She is very sleepy and frustrated.
microscope
chemicals
rocks
Part 1. In the space below, please draw a scientist at work.

Part 2. Label 3 or more parts of your drawing.

[Diagram of a child drawing a scientist and a butterfly]
THE EVOLUTION OF SCITECH

- Educators
  - From multiple to one

- Format
  - Two days a week for one hour to one day for two hours

- Routine
  - Sporadic to structured

- Curriculum
  - Random to themed
“IT’S A PASSPORT TO THE WORLD. ENGINEERING IS THAT BASE QUALIFICATION THAT CAN TAKE YOU ANYWHERE.”

- Regina Moran, CEO of Fujitsu Ireland and president of Engineers Ireland
TECH CHALLENGE

- Multiple week project
- Culminating experience
- Engineering design competition
- Community engagement aspect
PROGRAM CHALLENGES

- **FUNDING!**
  - Finding the funds
  - Multiple sources

- **Scheduling**
  - Multiple schools
  - Varied resources and calendars

- **Recording growth and statistics to measure impact**

- **Buy-in**
  - Parental and teacher involvement
  - Retention

- **Real-world science**
  - Guest speakers and field trips
PROGRAM IMPACT

- Higher test scores
- Better attendance in school
- Higher self worth
  - Based on pre- and post- tests, students end the year with significantly higher confidence and self-value
- Acceptance into specialized schools
  - SciTech girls move on to do BIG things!
“IN THE FUTURE, THERE WILL BE NO FEMALE LEADERS.
THERE WILL JUST BE LEADERS.”

- Sheryl Sandberg, Facebook COO
SciTech:

Empowering Girls Through After School Science Programs

SciTech Pledge

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Resources:


Notes: