During the 2022-2023 school year, 1,576 MCPS students from middle schools participated in the Invent the Future Challenge.

In the semester-long in-school course experience, each student received at least 55 hours of hands-on learning.

**Grade Level**
- Grade 8 (n=505): 32%
- Grade 6 (n=711): 45%
- Grade 7 (n=371): 24%

**Gender**
- Female: 39%

**Race/Ethnicity**
- Hispanic/Latino: 40%
- Black/African American: 25%
- White: 16%
- Asian: 12%
- Two or More Races: 6%

**Services Received**
- Free & Reduced-Priced Meals (FARMS): 55%
- English Language Development (ELD): 17%
- Special Education: 7%
Student Outcomes

Of 191 students surveyed:
- 92% extended or increased their critical thinking
- 92% extended or increased their reflection skills
- 89% extended or increased their academic motivation
- 89% extended or increased their learning interest
- 83% extended or increased their assertiveness
- 85% extended or increased their empathy

Of 688 students surveyed:
- 62% of students reported maintaining or increasing their interest in having a STEM job in the future
- 50% of students reported being more curious about the fields of engineering or technology

Of 16 educators surveyed:
- 100% reported that students maintained or increased their confidence in doing STEM and computer science
- 100% reported that students maintained or increased their skills in doing STEM and computer science
Teacher Outcomes

Of 16 educators surveyed

On a scale from 1 (Strongly Disagree) to 4 (Strongly Agree):

- **↑.25 pts**
  average increase in comfort leading STEM

- **↑.19 pts**
  average increase in interest in leading STEM

- **↑.13 pts**
  average increase in confidence leading STEM

- **↑.19 pts**
  average increase in capability leading STEM