

KID MUSEUM & MCPS

Program Impact Summary School Year 2021-22



Since 2014, KID Museum and MCPS have partnered to leverage *maker learning* as an equity-focused strategy to accelerate **STEM skill-building** and **social-emotional learning**.

KID Museum's unique model centers on **creative problem-solving** and supporting youth to develop **agency and confidence as learners**.

More than a typical museum, KID Museum is a trusted **innovation partner**, providing:

- Deep learning experiences for students
- Curriculum development & teacher PD
- Platform for family & community engagement
- Bridge to industry and career exposure
- Model for other communities nationally

2021-22 PARTICIPATION

6,413
STUDENTS

365
TEACHERS

54
SCHOOLS

- 69% of students received FARMS
- 54% Hispanic/Latino students
- 30% Black/African American students
- All students participate in programs with 14+ hours of facilitated content

Data shared by the MCPS Office of Shared Accountability

PROGRAM IMPACT

KID Museum's Invention Programs engage 2nd-8th graders in a sequenced maker-based curriculum including 4 hands-on field trips to KID Museum, in-class curriculum delivered by teachers (between 6 - 60 hours, depending on the program), teacher professional development, and community showcases. As students build inventions to solve community and environmental problems, they build skills in engineering, electronics, 3D modeling, and coding, while developing their social/ emotional capacity for collaboration, perseverance, and empathy.

KID Museum collaborates with two independent evaluation groups, [The PEAR Institute](#) and [Sharp Insight, LLC](#), to measure the impact of these programs. The tools leverage student self-reporting, retrospective change analysis, and teacher impressions of student outcomes.

76%

of students showed an increase in **STEM Engagement**

74%

of students showed an increase in **critical thinking**

68%

of students showed an increase in **perseverance**

73%

of students showed an increase in **empathy**

93%

of teachers report increase in students' **engineering skills**

88%

of teachers report increase in students' **confidence with engineering & technology**

88%

of teachers report increase in students' **perseverance**

85%

of teachers report increase in students' **critical thinking**

PROGRAM SPOTLIGHT: KID AFTERSCHOOL

In the 2021-22 school year, we piloted *KID Afterschool*, a twice weekly afterschool program for K-3rd grade students designed to build sustained STEM engagement while developing agency, exercising creativity, and increasing engagement in school. Student surveys indicate, that during the *KID Afterschool* program:

- 93% of students more excited to try new things
- 81% of students are more excited to come to school
- 94% of students report, "I feel like I belong."
- 90% of students report, "My ideas matter."