Outcomes of FUSE Participation

**FUSE enables youth to discover new interests.**
100% of surveyed youth report discovery of a new interest in FUSE. Three quarters reported that this new interest could be relevant to success in school, at work, or both.

**FUSE supports the development of 21st century skills.**
Surveys of FUSE youth show evidence of increased persistence, adaptive problem solving, and collaboration over the course of their FUSE experience. Youth reported an increase in their efforts to look for ways to solve difficult problems they encounter, and they showed a greater willingness to try something they were not good at. 100% of facilitators interviewed report that FUSE supports students in developing necessary ‘non-cognitive skills’, such as problem-solving, persistence, and working together.

**FUSE is an environment with abundant peer support.**
Nearly all FUSE participants experience the learning environment as high in peer support from their very earliest experiences. 100% of youth reported using peer support in FUSE. Nearly 66% of FUSE users described that peer support as offering new opportunities and resources that deepened their developing interests. Based on on-site observation data, teachers consistently redirect requests for help to peers, helping to create a culture in which peer support is nurtured and expected.

**FUSE impacts future plans.**
Responses to questions about how FUSE is influencing participants’ thoughts about future STEM education and career pathways showed that FUSE supports participants’ existing ideas and/or suggests new ideas about the future. In particular there were significant increases in responses to the prompts: “The FUSE challenges I’ve tried are like things I might want to study in school in the future” and “The FUSE challenges I’ve tried are like things I might want to do for work in the future”.

**FUSE has an impact beyond the studio.**
Over 50% of youth reported that they could transfer skills learned in FUSE to their work in the classroom, and that their teachers had noted these new capacities.

**FUSE is successful in a variety of contexts.**
External evaluators report that FUSE can successfully adapt to a wide range of school and community settings. 93% of schools implementing FUSE are public schools, ranging from elementary to high school. 59% of those schools serve a substantial population of low-income students. Of the youth participating in FUSE, 57% report being from an under-represented minority.

**FUSE appeals to boys and girls.**
Students of both genders persist through FUSE challenges at consistently high rates (i.e. greater than 80%). Analysis of user data shows that, of the FUSE challenges, a third are particularly interesting to girls, a third to boys, and a third are equally interesting to all users.