

## **BuildingBridges**<sup>z®</sup>

## BACKGROUND

- The most engaging science, technology, engineering, and mathematics (STEM) outreach events are often those that are planned, integrated, and executed by community partners and stakeholders.
- When creating STEM outreach opportunities for middle school youth organizations, it is necessary to showcase STEM skills that translate to real careers all while providing a STEM experience with a STEM professional.
- The Museum of Science and Industry (MSI), Chicago is one of the largest science museums in the world and home to more than 400,000 square feet of hands-on exhibits designed to spark scientific inquiry and creativity.
- Building Bridges, Inc., a non-profit organization (EIN: 82-5445077), was born out of a desire to empower young Black girls by exposing them to STEM education and selfawareness strategies.
- South STEM-based organizations partnered together to deliver the 1st Annual Youth Summit at MSI on Saturday, October 8th for middle school female-identifying and nonbinary youth.

### PURPOSE

This conference-style event was curated to engage middle school-aged youth in interactive, hands-on activities centered around subjects such as nature-based science, gaming, and health & wellness with STEM professionals.

### **METHODS**

- Building Bridges, Inc. led five sessions titled "Love the Skin You're In"
- Youth were exposed to the biology of skin, skin structure, importance of skin care, and innovation by making their very own sugar scrub to take home.
- Youth were exposed to career paths and self-affirmations.
- Surveys were conducted after each session.

# **Community Partnership Can Drive Continuous STEM Exposure for** Female-Identifying and Non-Binary Youth Shyretha Brown<sup>1</sup>, Jacklyn Carmichael<sup>2</sup>, Margy LaFreniere<sup>2</sup>, Aaron Price<sup>2</sup>, TaAqua Campbell<sup>1</sup> <sup>1</sup>Building Bridges, Inc., Nashville, TN and Chicago, IL <sup>2</sup>Museum of Science and Industry, Chicago, IL

## MATERIALS

#### **Figure 1. Session Content**

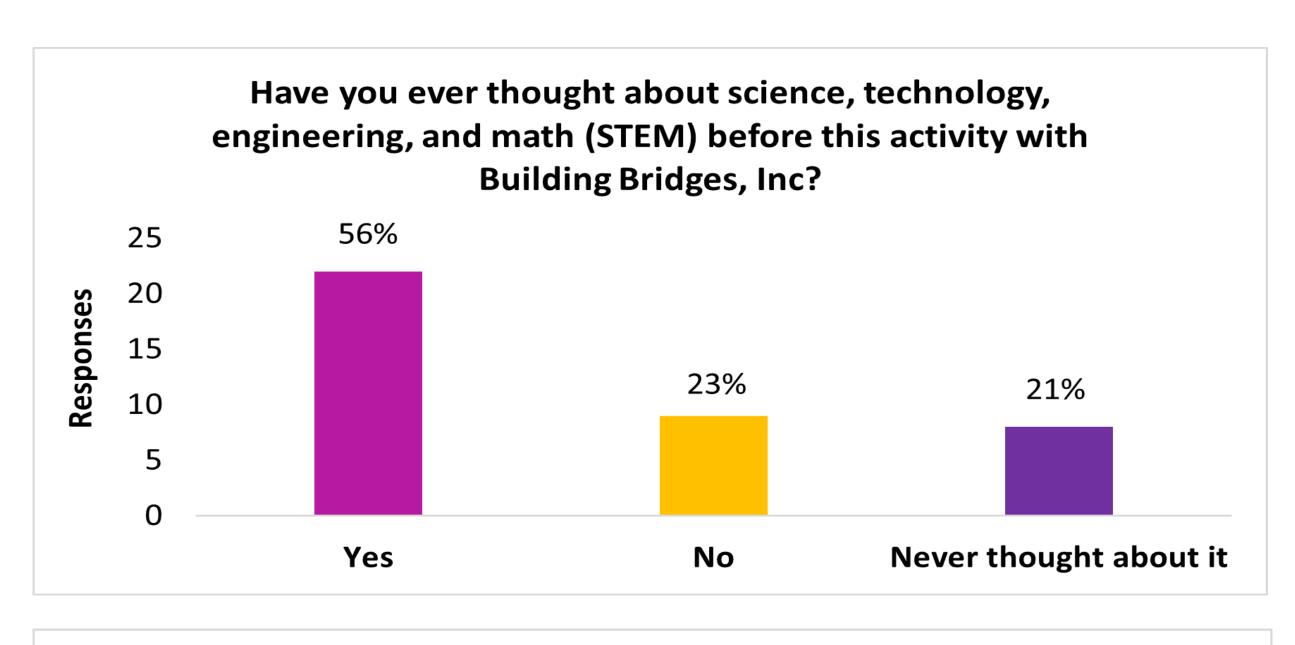


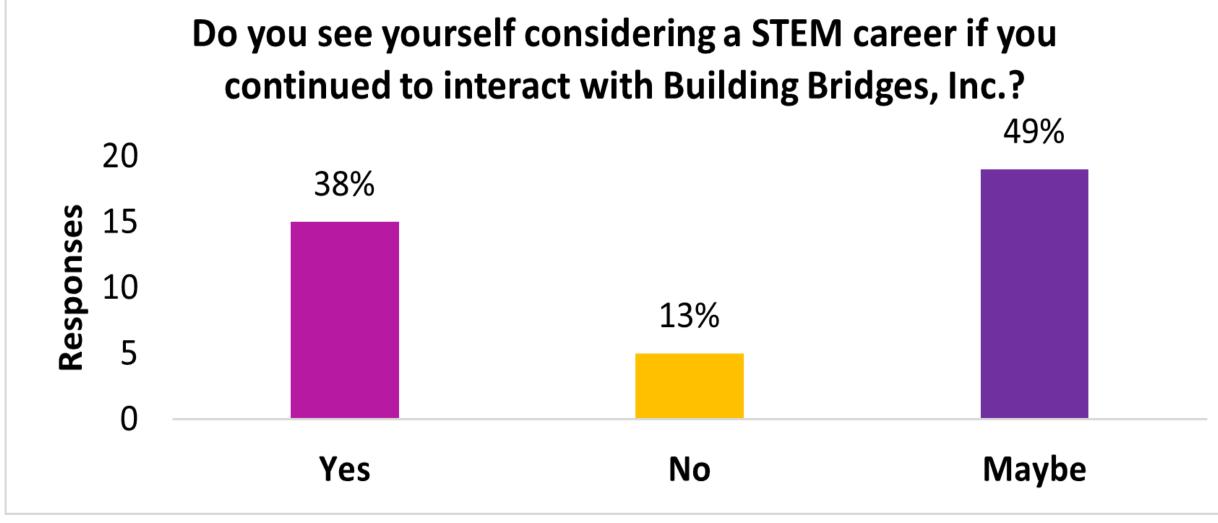
#### Figure 2. Youth Participating During Session





Table 1. Conference D	etails	
Middle School Female- Identifying & Non-Binary Youth	60	
Adult Chaperones	13	
Number of Organizations	3	
Number of Sessions	5	
Length of Sessions	30 minutes	
Time Commitment	5 hours	



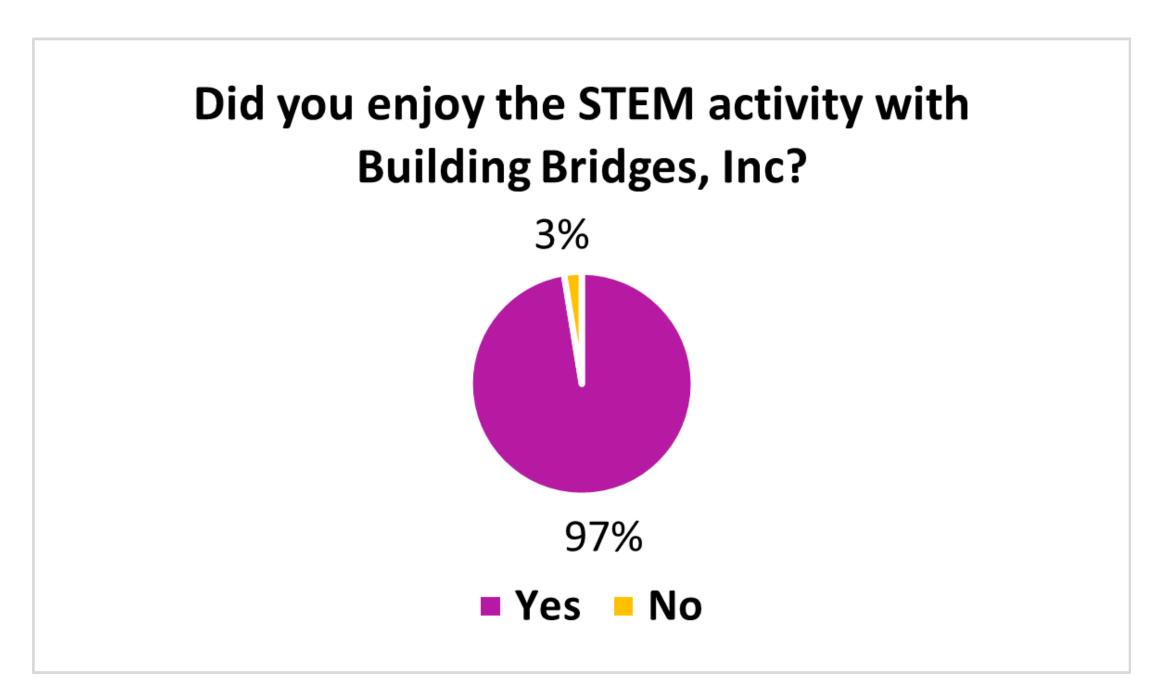


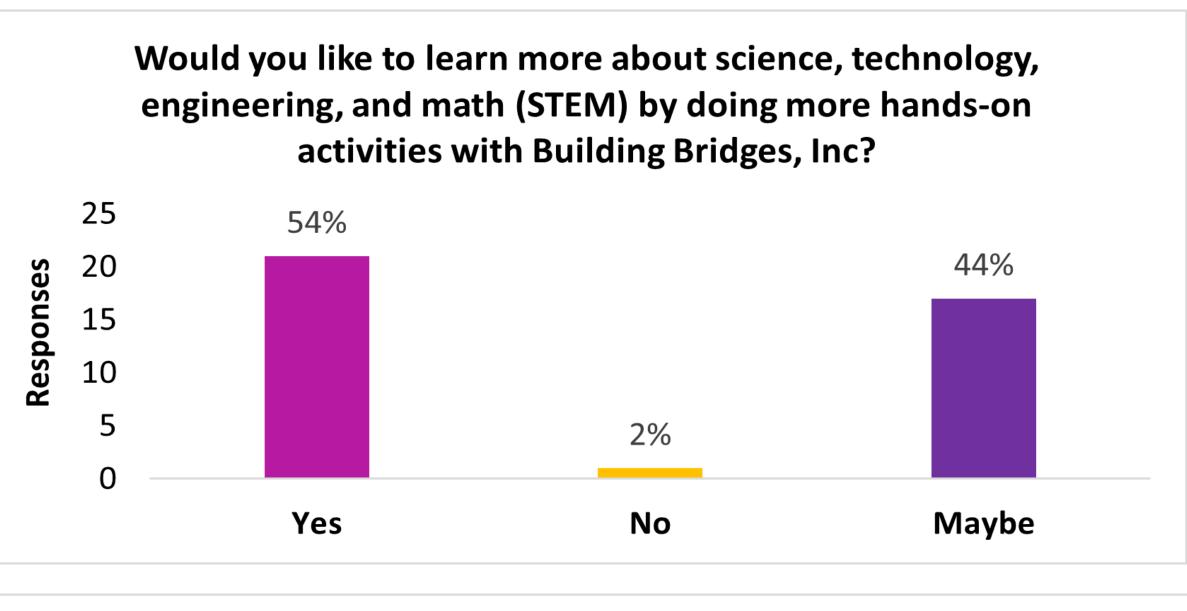
## CONCLUSIONS

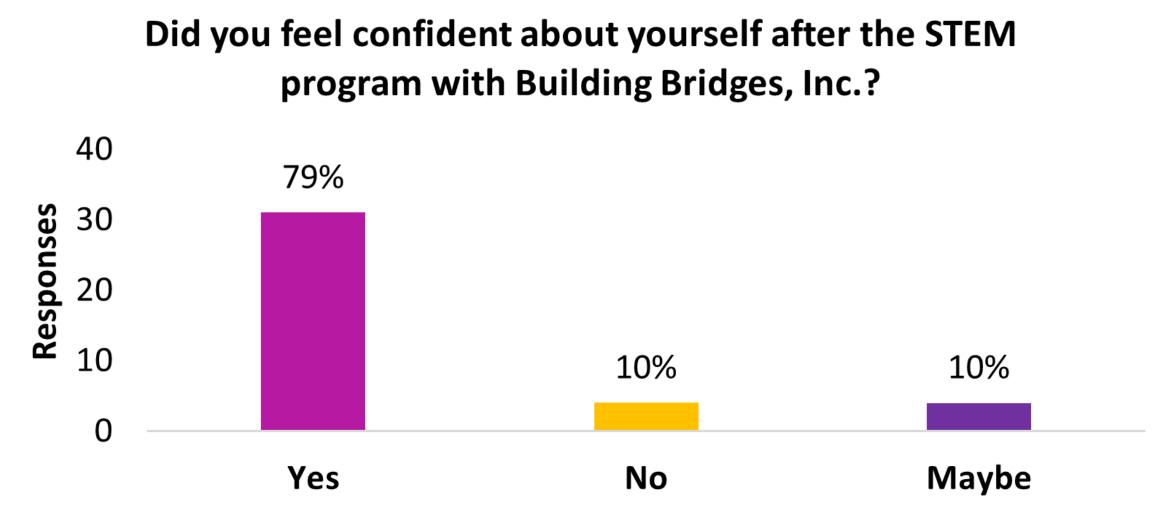
- 65% survey feedback was received from youth.
- ✤ 44% had never thought about STEM, and 98% are open to learning more about STEM by doing more hands-on activities.
- 86% could see themselves considering a career in STEM.
- Middle school female-identifying and non-binary youth may benefit from continuous exposure to STEM activities and professionals through organized STEM outreach events from community partners and stakeholders.

## SULTS









## ACKNOWLEDGMENTS

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