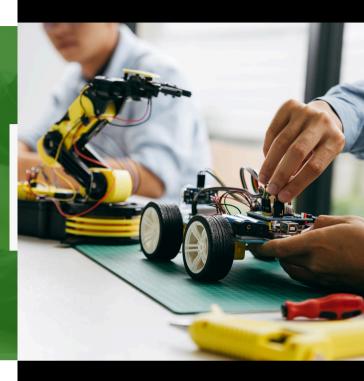


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# **CASE STUDY**

Transforming STEM Education at Hillside Middle School



## **PROJECT OVERVIEW**

Killian Elementary School, a suburban K-5 institution, partnered with STEM U to transform its approach to STEM education.

Facing challenges of disengaged students and unprepared educators, the school sought innovative solutions to bring STEM learning to life. With customized training and hands-on resources, STEM U empowered teachers and engaged students, creating lasting improvements in STEM literacy and enthusiasm.

#### **Client Name:**

Killian Elementary School,

#### **Project type:**

STEM engagement strategy

#### Deadline:

Four weeks from start.

#### THE CHALLENGE

What were the problems

Lack of Teacher Confidencein STEM Education

**02.** Classroom Student Disengagement

**03.** STEM Integration Difficulties

Educators felt unprepared to effectively teach STEM subjects due to limited training and classroom resources.

Many students demonstrated little interest in science and math, which significantly impacted their overall academic success.

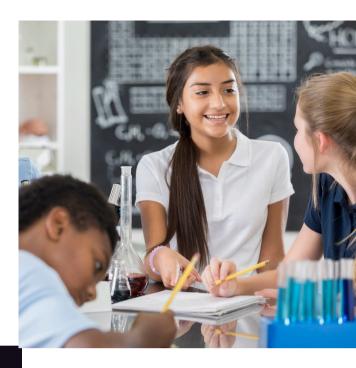
Incorporating STEM into the existing curriculum proved challenging without having a structured plan or adequate support systems.

### THE SOLUTION

What we proposed

#### A Comprehensive STEM Integration Plan to Empower Teachers and Engage Students

STEM U partnered with Killian Elementary to create a tailored STEM education program that addressed the school's unique needs. This included professional development workshops for teachers, equipping them with the skills and resources to deliver dynamic, technology-driven lessons. Engaging, standards-aligned STEM activities for students, such as robotics and coding challenges, were also introduced to foster curiosity and hands-on learning.



# **KEY IMPACT METRICS**

Here's what our STEM Engagement Strategy Achieved.

30% Increase in Student Engagement Over 50%

Participation in After-School

STEM Club

Killian Elementary saw a 30% increase in STEM engagement, improved test scores, and 50% participation in the after-school STEM club.



# THE RESULTS

Within one semester, Killian Elementary experienced a 30% rise in student engagement in STEM subjects, with significant improvements in math and science test scores. Teachers reported greater confidence in using technology and delivering STEM-focused lessons. The newly launched after-school STEM club attracted over 50% of students in grades 3-5, sparking enthusiasm for STEM projects and leading several students to participate in local robotics competitions. This transformation highlighted the school's commitment to fostering innovation and curiosity among its learners.



# **Contact us!**

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