

## 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

### 01. Lack of Teacher Confidence in STEM Education

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

### 02. Classroom Student Disengagement

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

### 03. STEM Integration Difficulties

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.

STATS



## 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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