

# MS STEM ACADEMY REVIEW

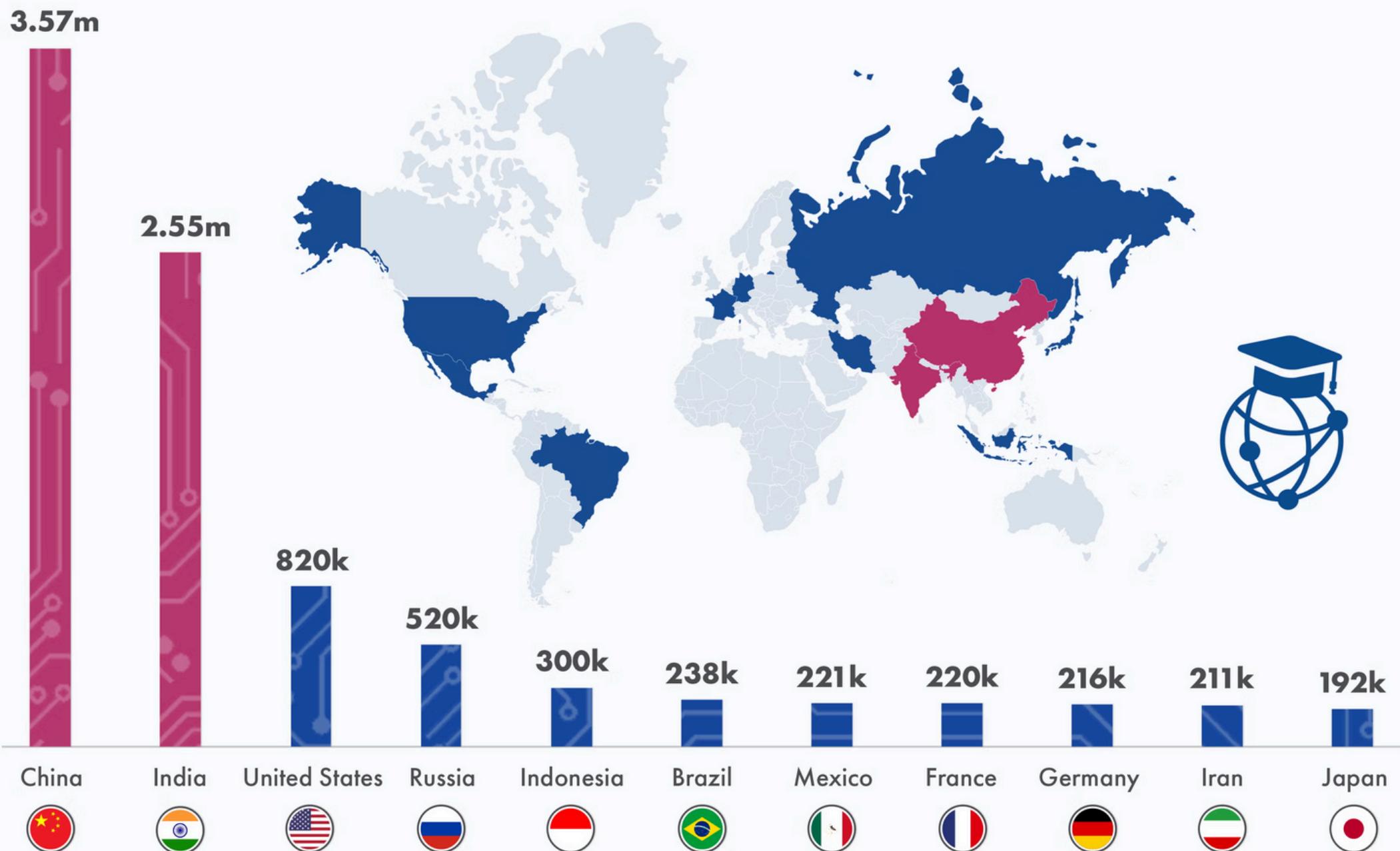
"Teach so that students learn to their maximum potential"



# WHY STEM?

## Top Countries by Number of STEM Graduates

Graduates in Science, Technology, Engineering, and Mathematics in 2020

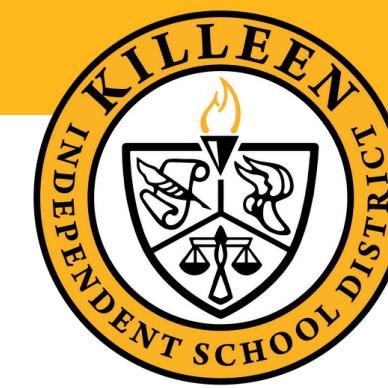


@CSETGeorgetown

Source: OECD and the statistical yearbooks of Russia, Indonesia, Iran, India, and China

**CSET** CENTER for SECURITY and  
EMERGING TECHNOLOGY





# MS STEM ACADEMY PROGRAM PRIORITIES

**01**

**STEM Program Locations**

**02**

**Cohort-Based Core Instruction**

**03**

**Project-Based Learning  
& Student Ownership**

**04**

**STEM-Focused Course Offerings  
and High School Credits**



★ First year STEM Program at campus

# MS STEM ACADEMY

## PROGRAM IMPLEMENTATION TIMELINE

**Roy J Smith**  
Middle School

**2017**

Program Allocation:  
\$250,000  
420 Students

**Roy J Smith**  
Middle School

**2020**

Program Allocation:  
\$250,000  
642 Students

**Eastern Hills**★  
Middle School

**Manor**★  
Middle School

**Rancier**★  
Middle School

**Rancier**  
Middle School

**Nolan**★  
Middle School

**Nolan**  
Middle School

**Nolan**  
Middle School

**Roy J Smith**  
Middle School

**2024**

Program Allocation:  
\$250,000  
747 Students

**Roy J Smith**  
Middle School

**2026**

Program Allocation:  
TBD  
822 Students

# MS STEM ACADEMY

## ATTENDANCE ZONES 2025 - 2026

### Smith MS STEM Academy

- Audie Murphy, Charles Patterson, Live Oak Ridge, Palo Alto, Jimmie Don Aycock, Roy J. Smith

### Nolan MS STEM Academy

- Current Grade 8 - Eastern Hills, Liberty Hill, Manor, Nolan, Rancier, Union Grove
- Current Grade 6 & 7 - Liberty Hill, Nolan, Union Grove

### Eastern Hills MS STEM Academy

- Current Grades 6 & 7 - Eastern Hills
- Current Grade 8 - Nolan

### Manor MS STEM Academy

- Current Grades 6 & 7 - Manor
- Current Grade 8 - Nolan

### Rancier MS STEM Academy

- Current Grades 6 & 7 - Rancier
- Current Grade 8 - Nolan



# MS STEM ACADEMY

## ATTENDANCE ZONES 2026 - 2027

### **Nolan MS STEM Academy**

- Liberty Hill, Nolan, Union Grove

### **Smith MS STEM Academy**

- Audie Murphy, Charles Patterson, Live Oak Ridge, Jimmie Don Aycock, Roy J. Smith

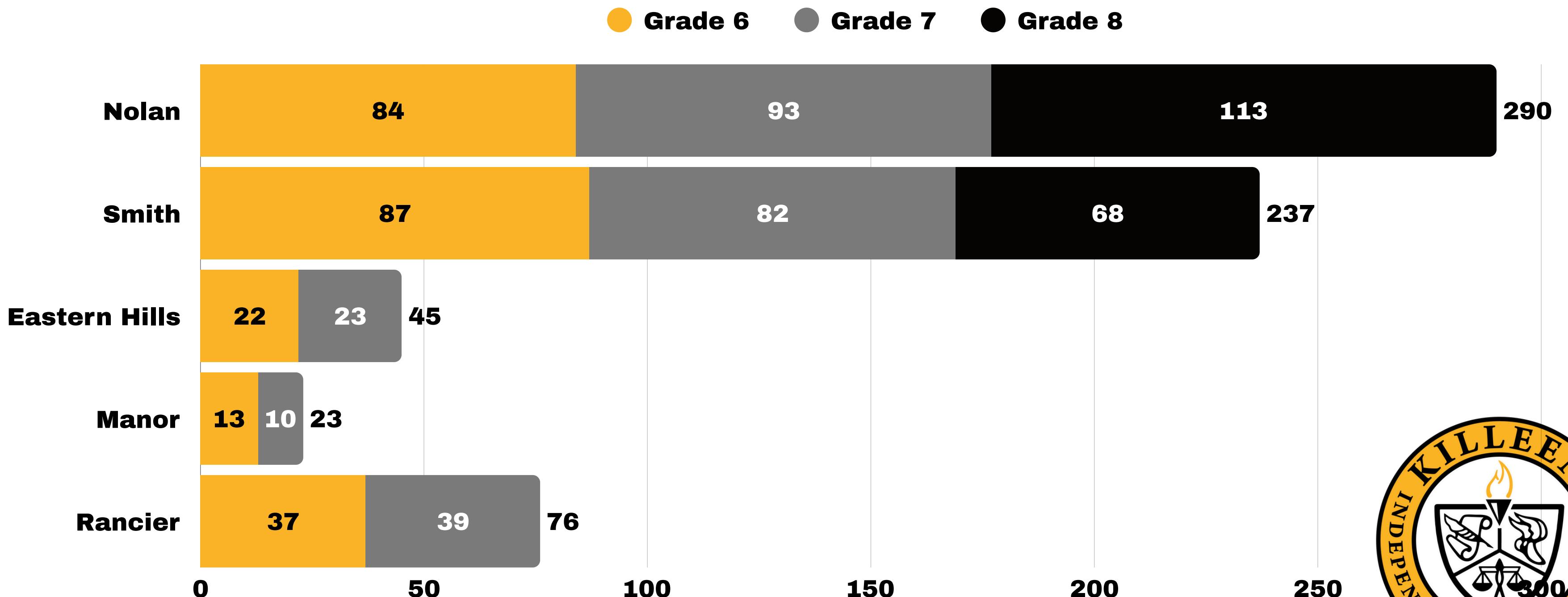
### **Rancier MS STEM Academy**

- Manor, Rancier



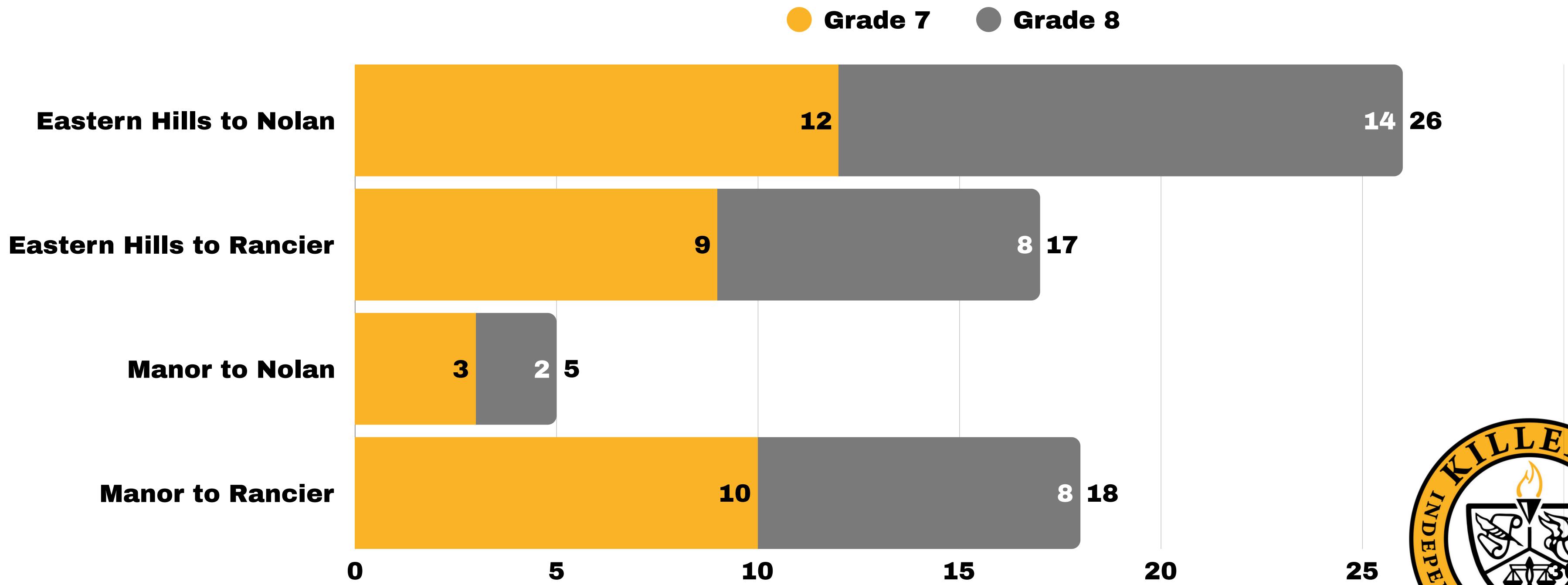
# MS STEM ACADEMY

## Campus Student Membership by Grade 2025 - 2026



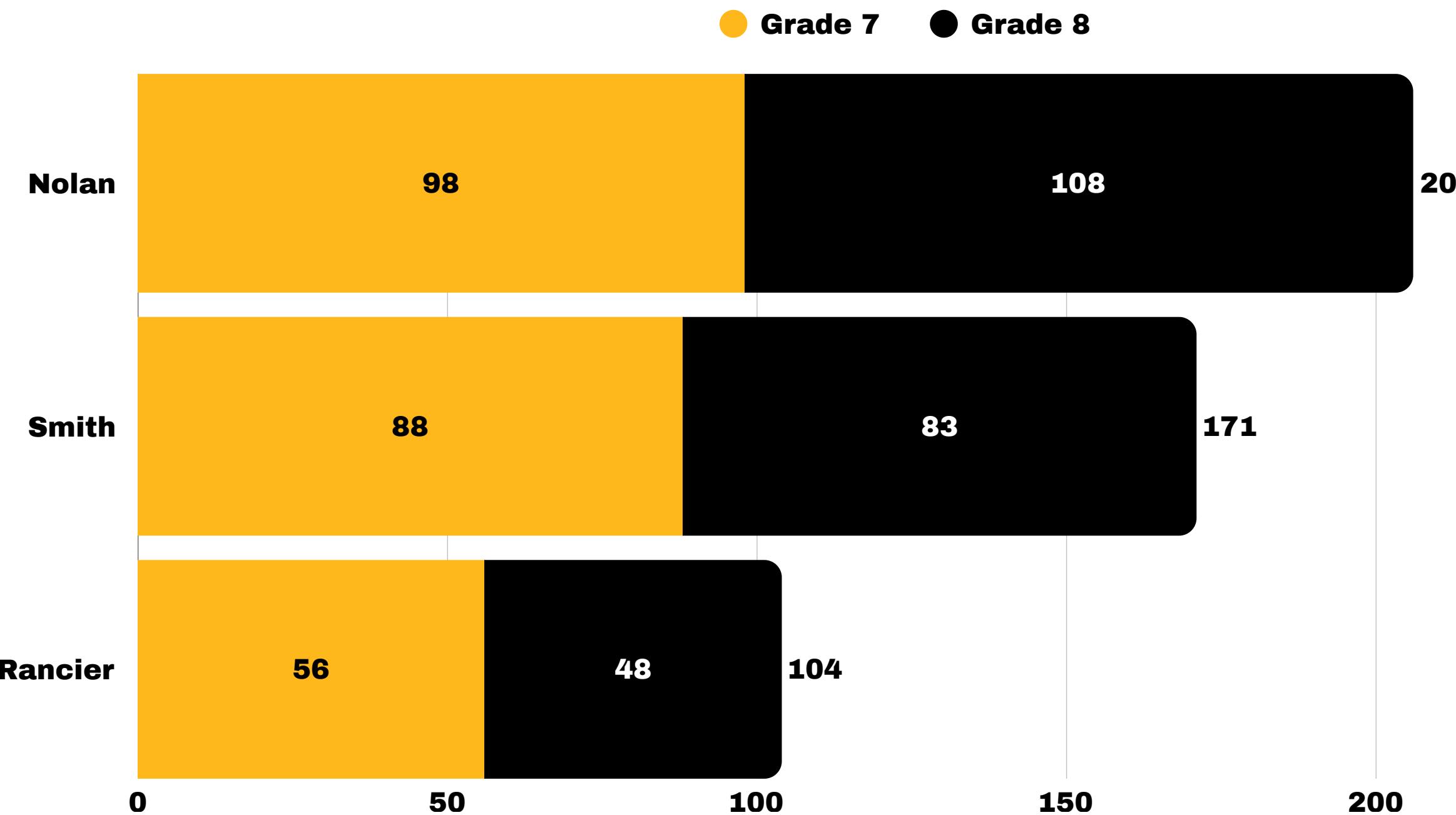
# MS STEM ACADEMY

## 2026 District Optimization Projected Locations



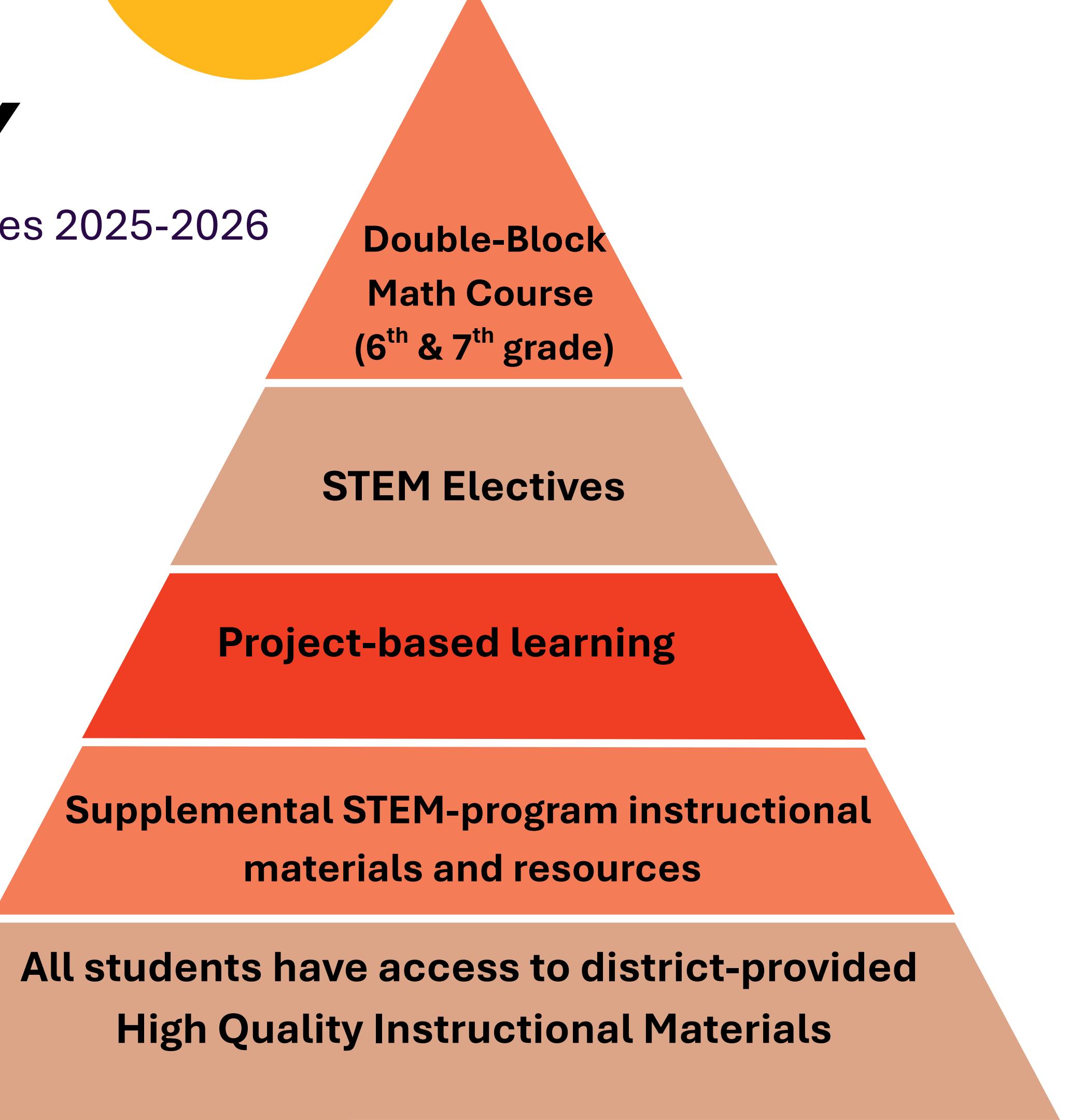
# MS STEM ACADEMY

## Campus Student Membership by Grade - 2026 District Optimization Impact

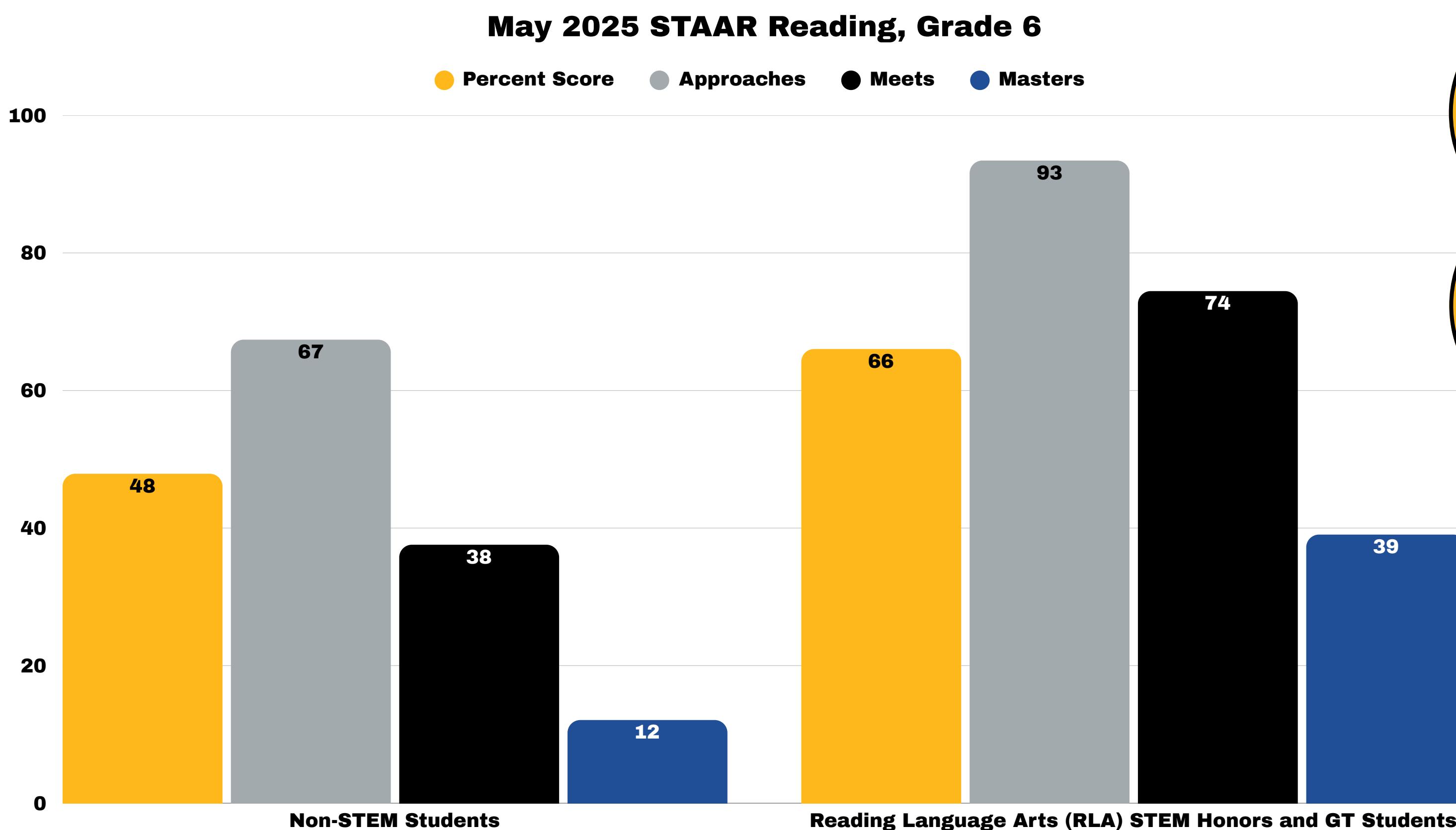


# MS STEM ACADEMY

Curriculum Resources 2025-2026



# MS STEM ACADEMY 2025 STAAR / EOC ACHIEVEMENT



In addition, other unique STEM program features:

- 100% certified teachers
- Limited teacher turnover
- Supplemental Material Used:
  - Achieve3000



# MS STEM ACADEMY 2025 STAAR / EOC ACHIEVEMENT

## May 2025 STAAR Mathematics, Grade 6



**Percent Score**



**Approaches**



**Meets**



**Masters**

100

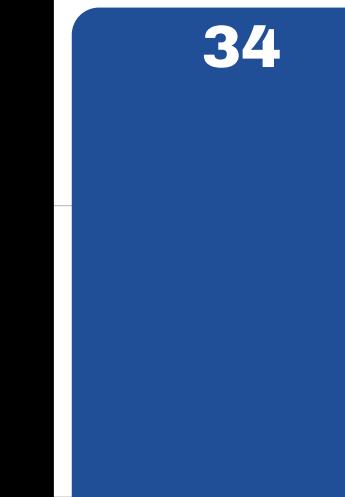
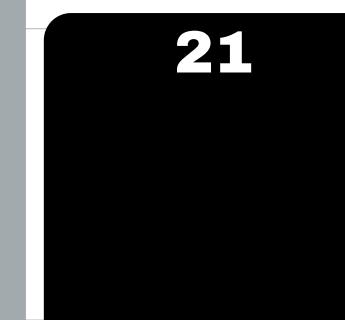
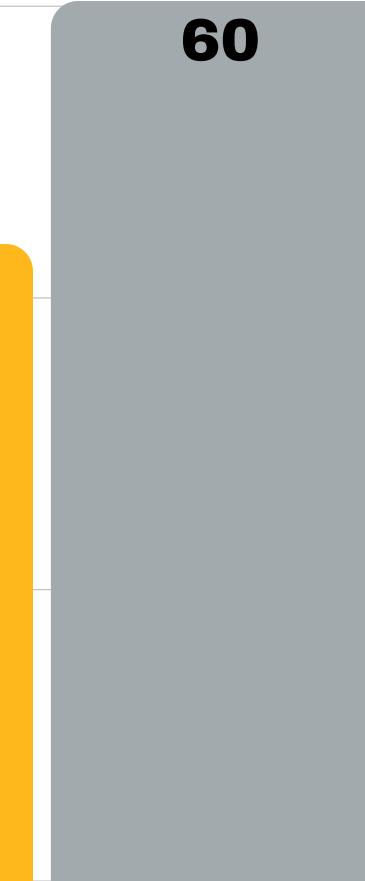
80

60

40

20

0



**Non-STEM Students**

**Pre-Algebra STEM Honors and GT Students**

In addition, other unique STEM program features:

- 100% certified teachers
- Limited teacher turnover
- Double Block Math Course
- Supplemental Material Used:
  - Delta Math
  - ST Math



# MS STEM ACADEMY 2025 STAAR / EOC ACHIEVEMENT

## May 2025 STAAR Reading, Grade 7



**Percent Score**



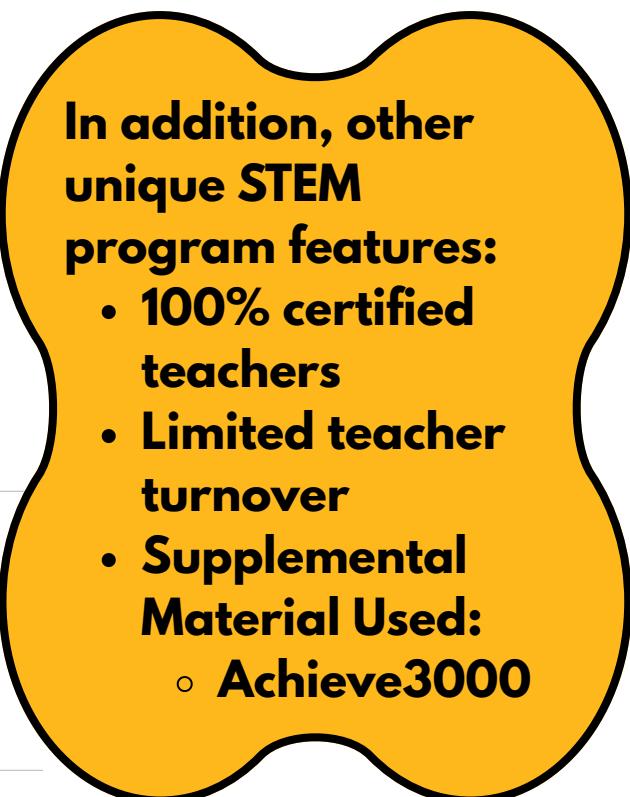
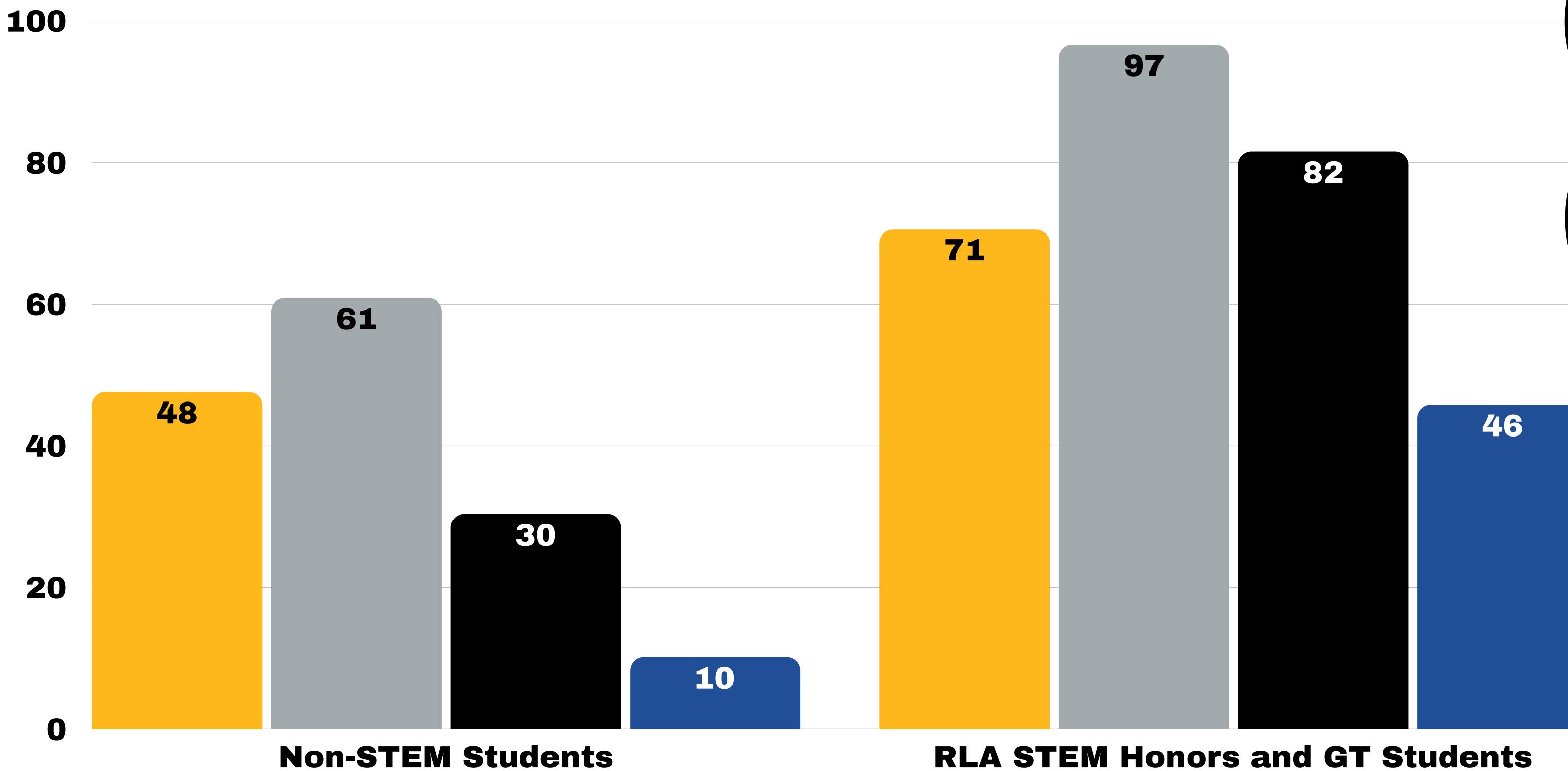
**Approaches**



**Meets**



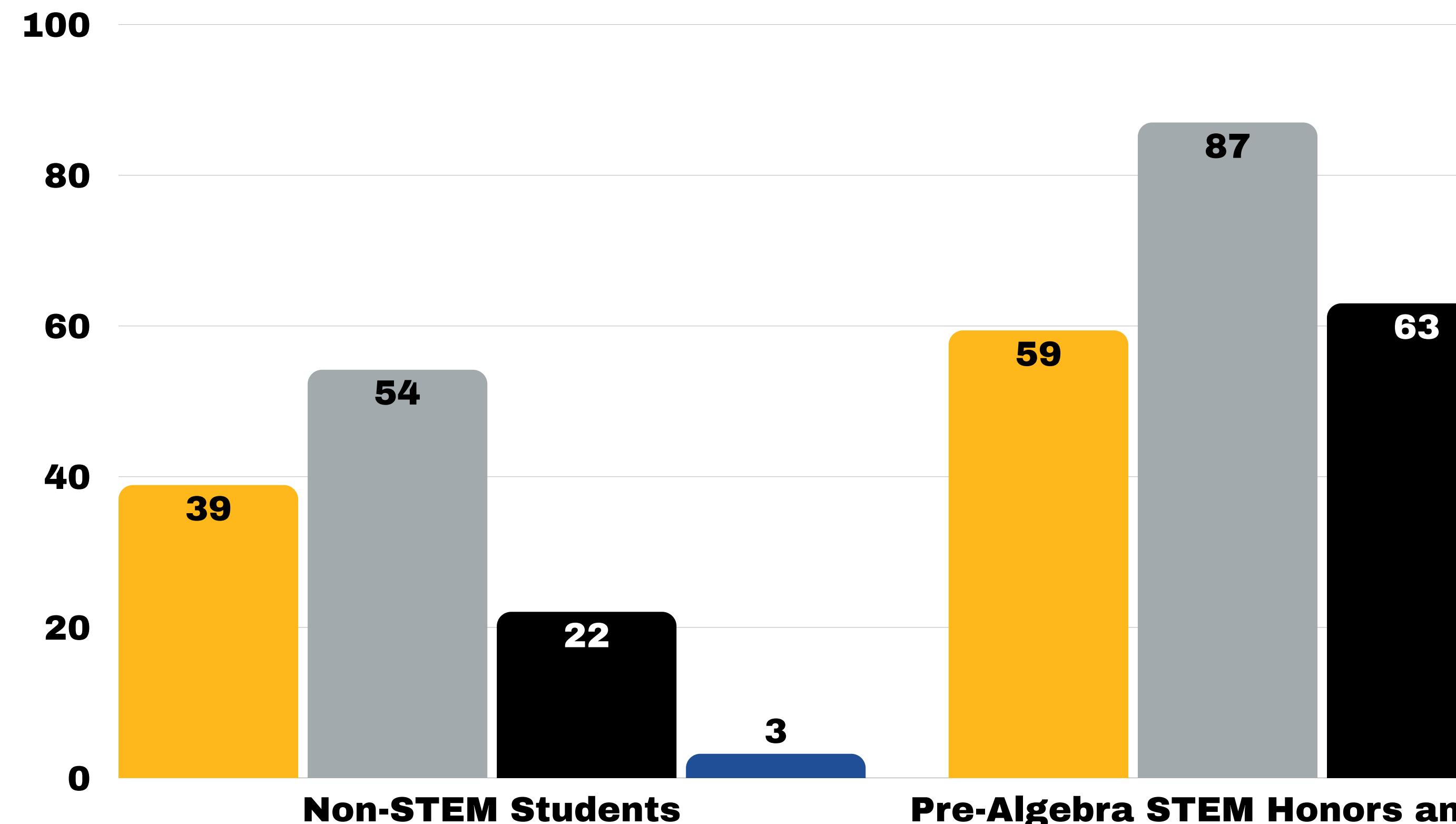
**Masters**



# MS STEM ACADEMY 2025 STAAR / EOC ACHIEVEMENT

## May 2025 STAAR Mathematics, Grade 8

● Percent Score   ● Approaches   ● Meets   ● Masters



In addition, other unique STEM program features:

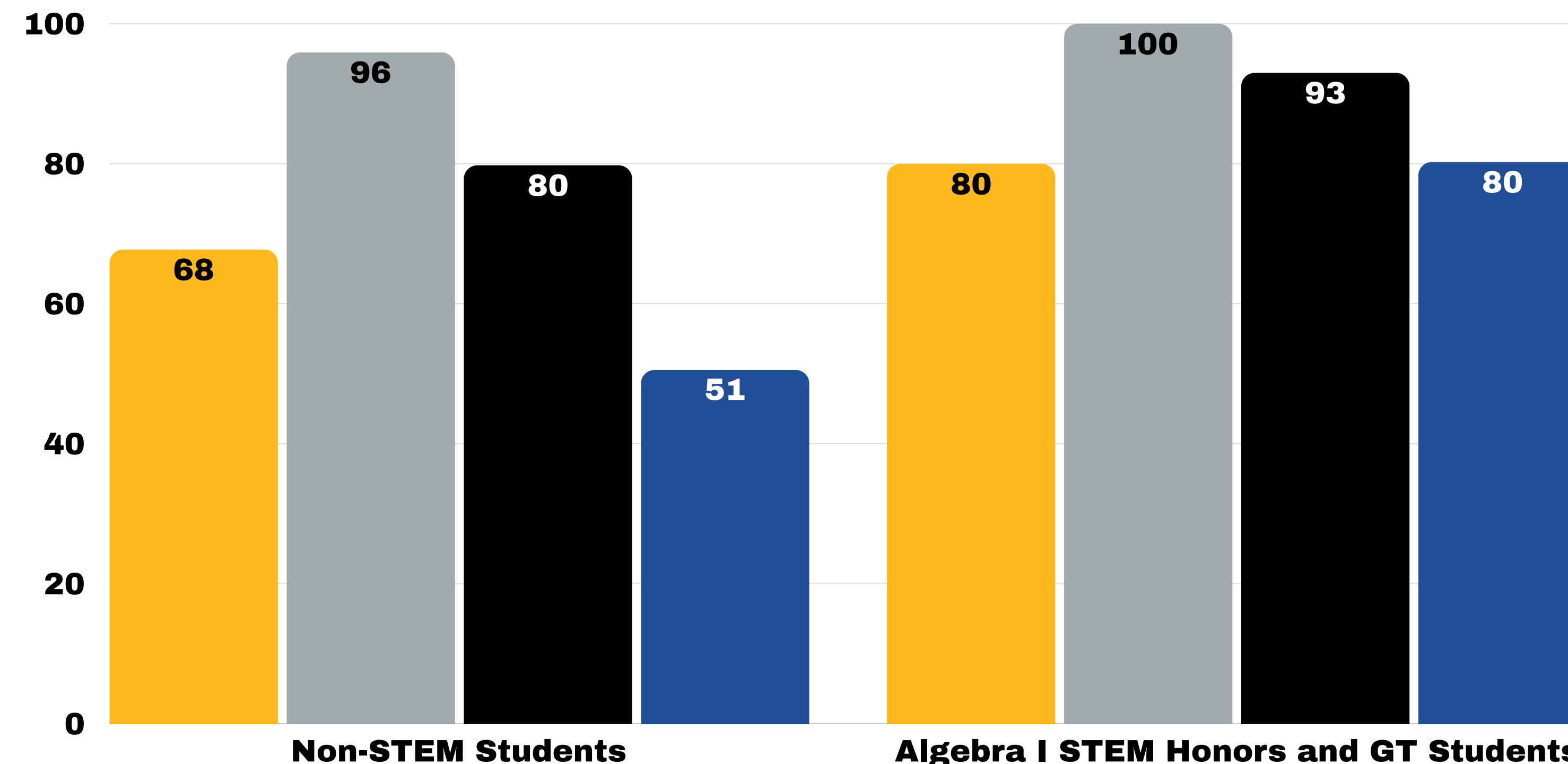
- 100% certified teachers
- Limited teacher turnover
- Double Block Math Course
- Supplemental Material Used:
  - Delta Math
  - ST Math



# MS STEM ACADEMY 2025 STAAR / EOC ACHIEVEMENT

## Spring 2025 STAAR EOC Algebra I

● Percent Score   ● Approaches   ● Meets   ● Masters



In addition, other unique STEM program features:

- 100% certified teachers
- Limited teacher turnover
- Supplemental Material Used:
  - Delta Math



# MS STEM ACADEMY 2025 STAAR / EOC ACHIEVEMENT

## May 2025 STAAR Reading, Grade 8



**Percent Score**



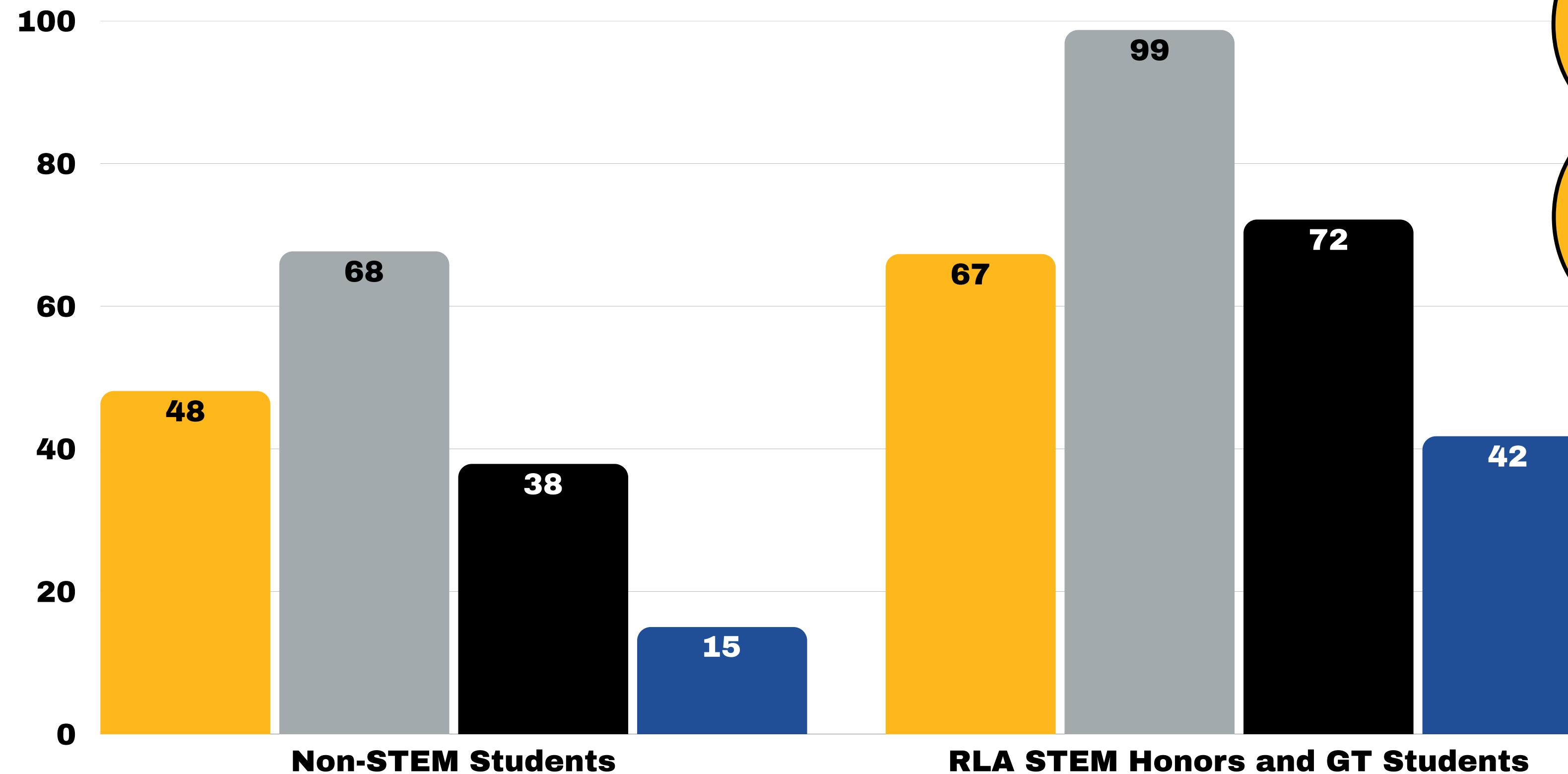
**Approaches**



**Meets**



**Masters**



# MS STEM ACADEMY 2025 STAAR / EOC ACHIEVEMENT

## May 2025 STAAR Science, Grade 8



**Percent Score**



**Approaches**



**Meets**



**Masters**

100

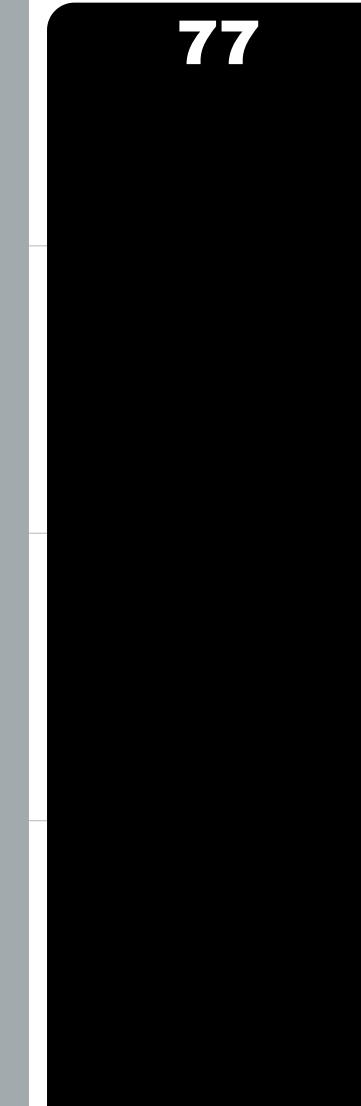
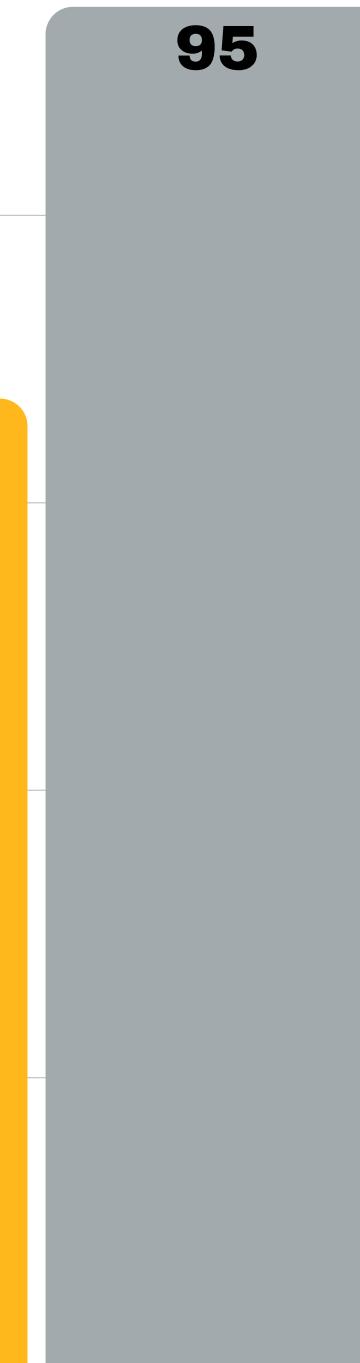
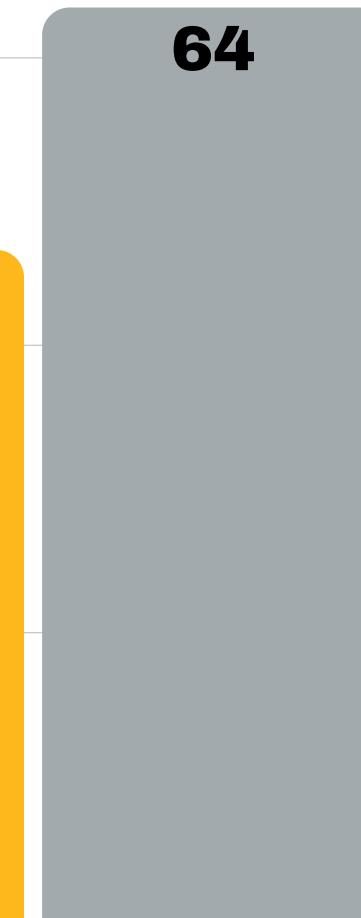
80

60

40

20

0



**Non-STEM Students**

**Science 8 STEM Honors and GT Students**

In addition, other unique STEM program features:

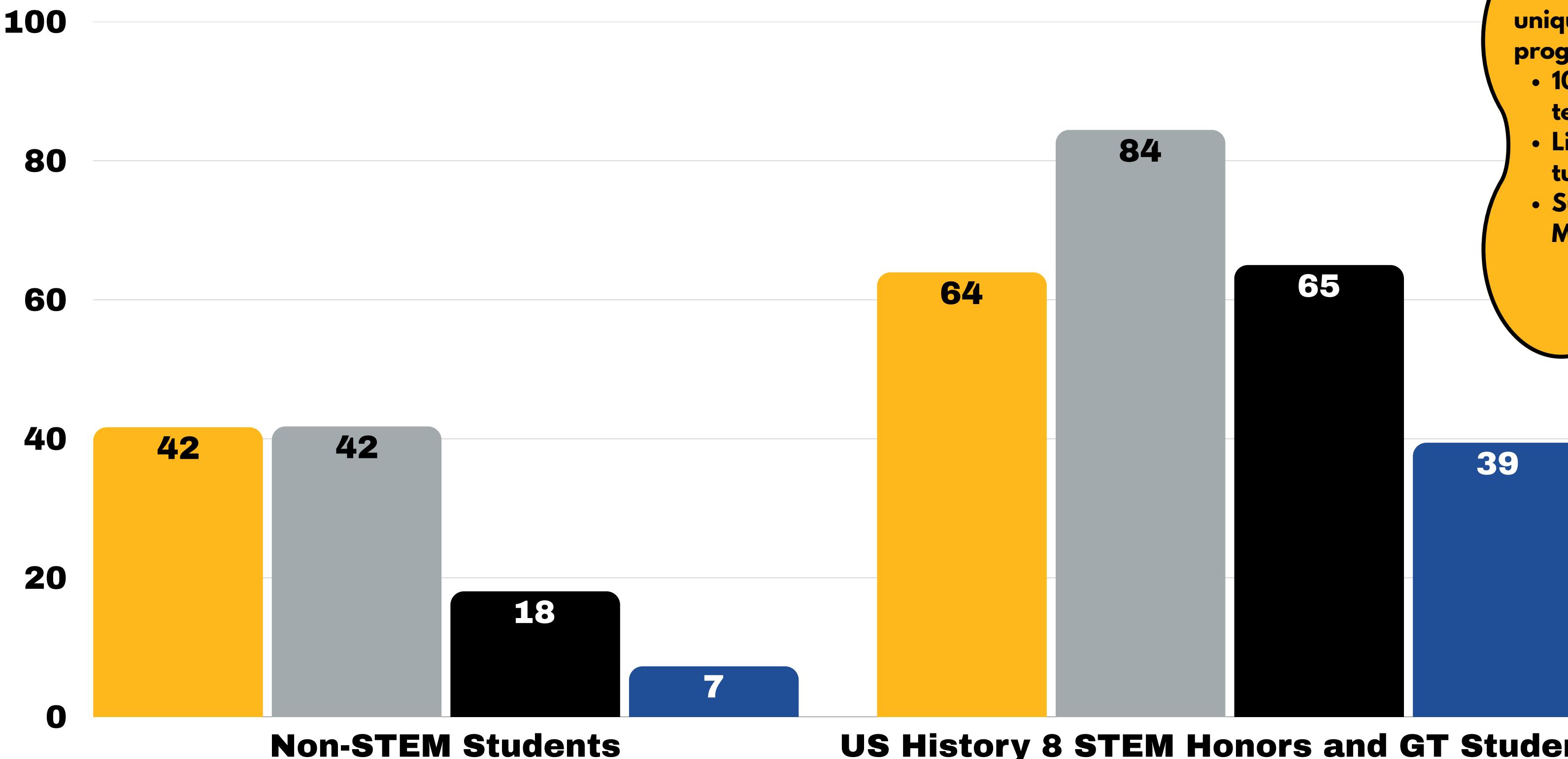
- 100% certified teachers
- Limited teacher turnover
- Supplemental Material Used:
  - Merge EDU



# MS STEM ACADEMY 2025 STAAR / EOC ACHIEVEMENT

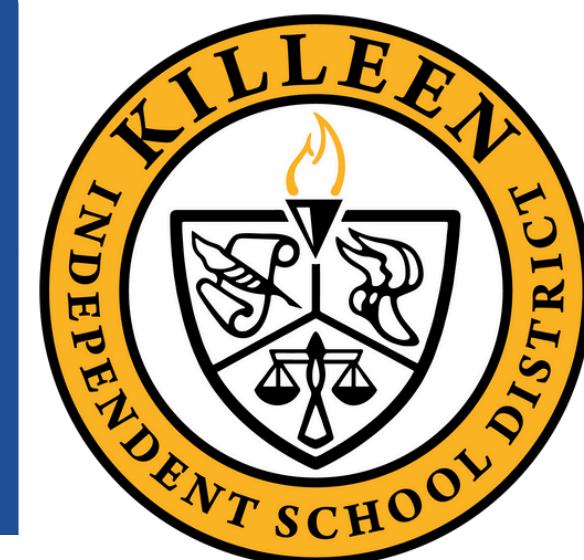
## May 2025 STAAR Social Science, Grade 8

● Percent Score   ● Approaches   ● Meets   ● Masters



In addition, other unique STEM program features:

- 100% certified teachers
- Limited teacher turnover
- Supplemental Material Used:
  - Active Classroom



# Recommendations for Improvement

## STEM STAFFING

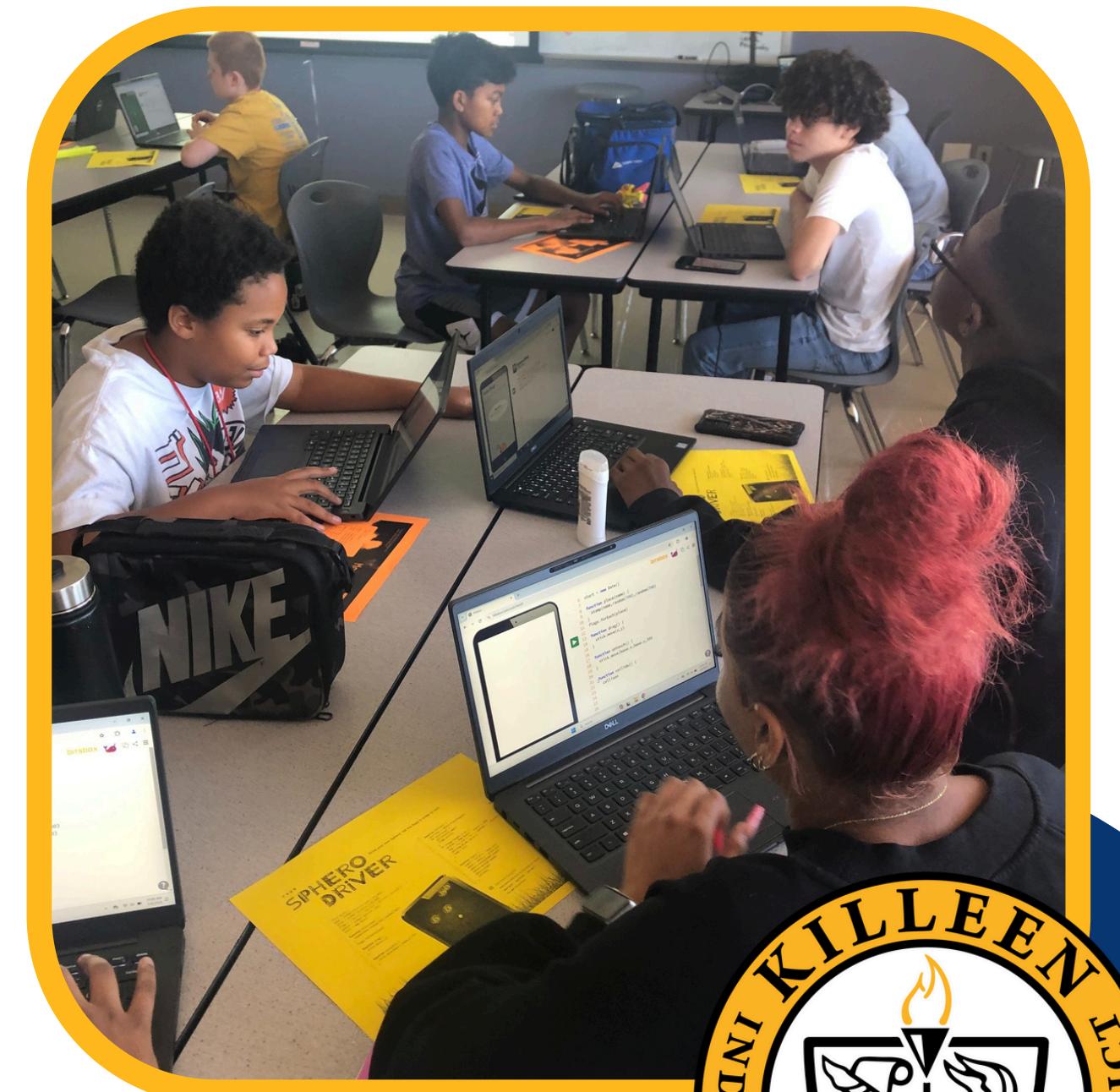
- Dedicated Staff Allocation (STEM Teachers Only)
- STEM Advisor/Counselor at Rancier MS
- Program Fiscal Resources

## STEM EQUIPMENT AND FURNITURE

- Need for SY 2026-27 for Rancier
  - Remaining 7<sup>th</sup> grade STEM
  - Equipment Engineering Equipment for 8<sup>th</sup> Grade HS Elective Course

## NEXT STEPS

- Middle School Transition to High School



# Celebrations

- Power of vertical alignment
- Project-based learning
- Enrollment has doubled and continues to grow
- Clear plan for district optimization to provide equity of STEM opportunities for all KISD
- Proven success of supplemental curriculum



# STEM STUDENT





**Any Questions?**