

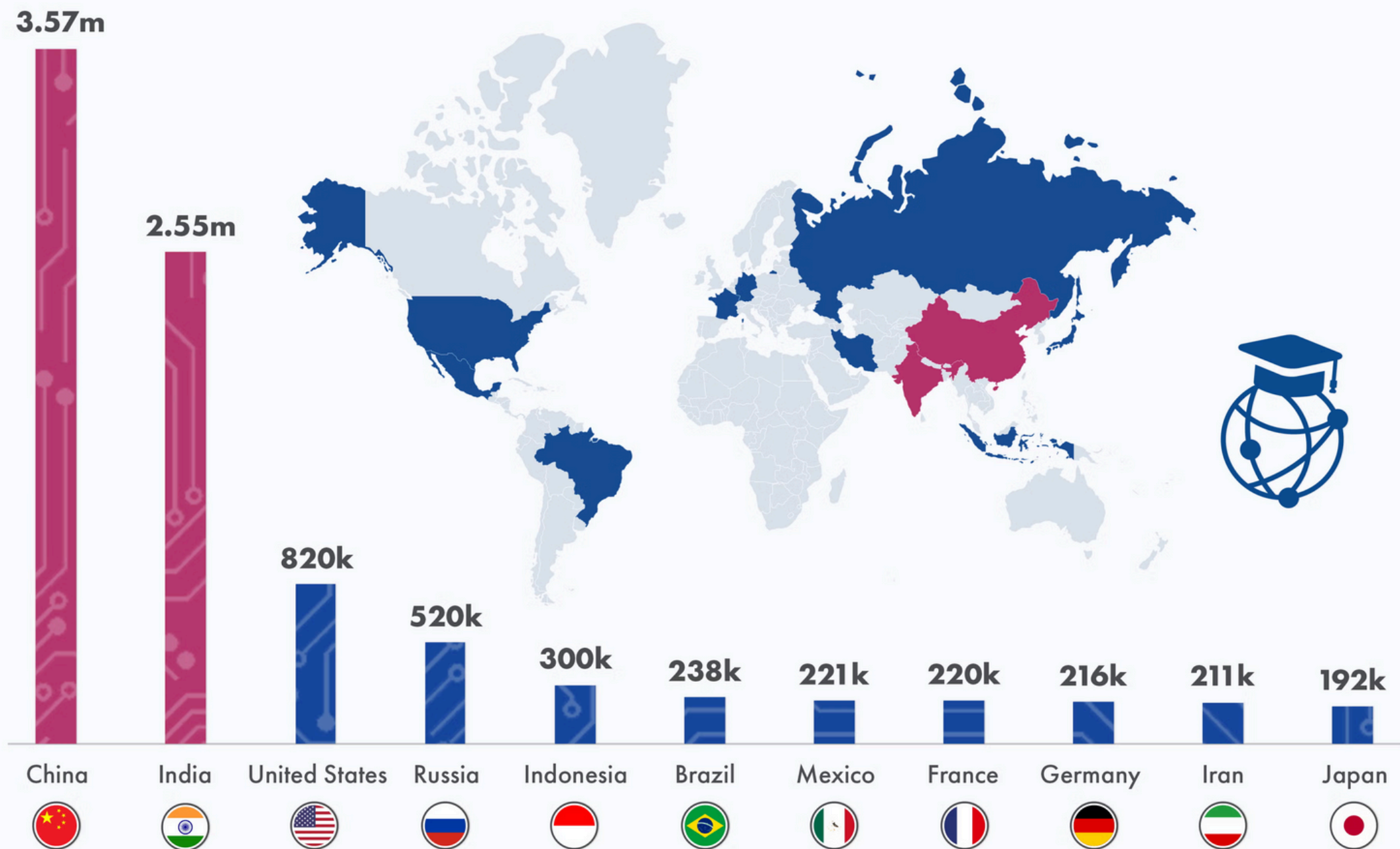
# MS STEM ACADEMY REVIEW

"Teach so that students learn to their  
maximum potential"



## 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

# WHY STEM?

- Workforce Competitive
- Advanced Levels of Education
- Economic Benefits
- Fast rate of Employment Growth





# 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

**Eastern Hills** ★  
Middle School

**Manor** ★  
Middle School

**Rancier** ★  
Middle School

**Nolan**  
Middle School

**Rancier**  
Middle School

**Nolan**  
Middle School

**Roy J Smith**  
Middle School

**Nolan** ★  
Middle School

**Roy J Smith**  
Middle School

**Roy J Smith**  
Middle School

**Roy J Smith**  
Middle School

**2017**

Program Allocation:  
\$250,000

420 Students

**2020**

Program Allocation:  
\$250,000

642 Students

**2024**

Program Allocation:  
\$250,000

747 Students

**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 Aycok, 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 Aycok, Roy J. Smith

### Rancier MS STEM Academy

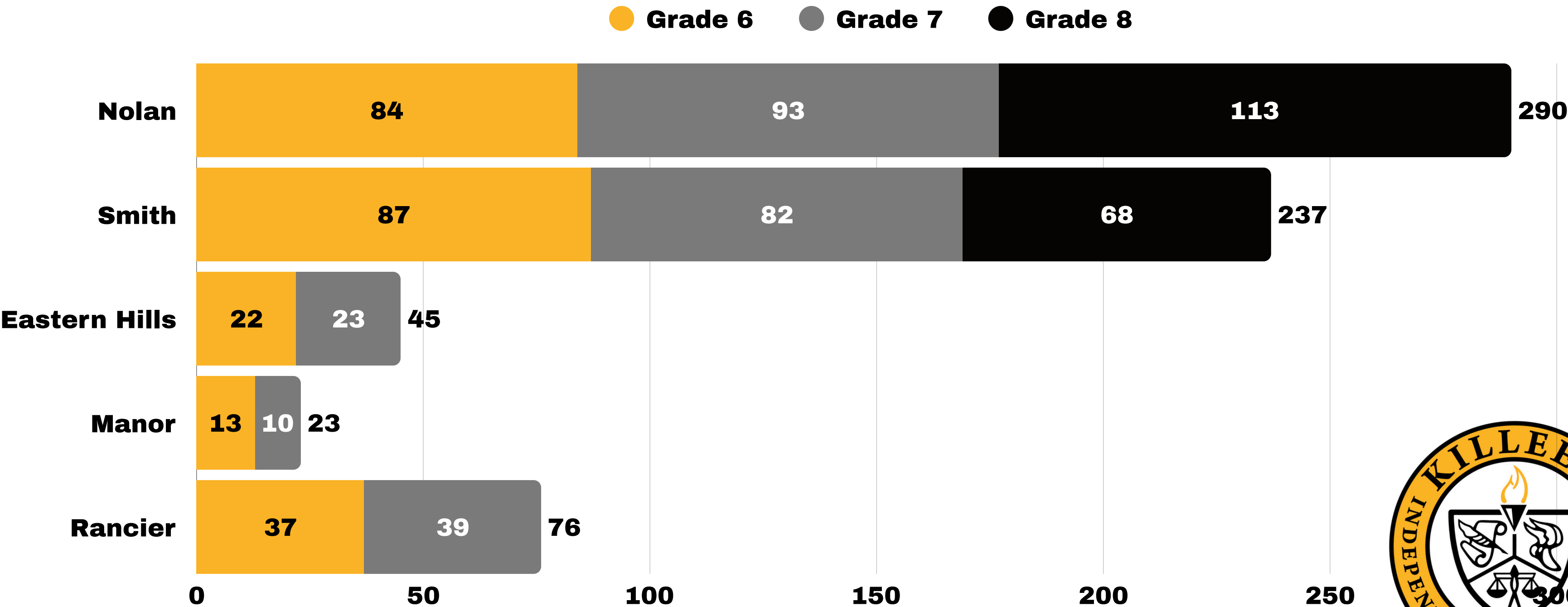
- Manor, Rancier





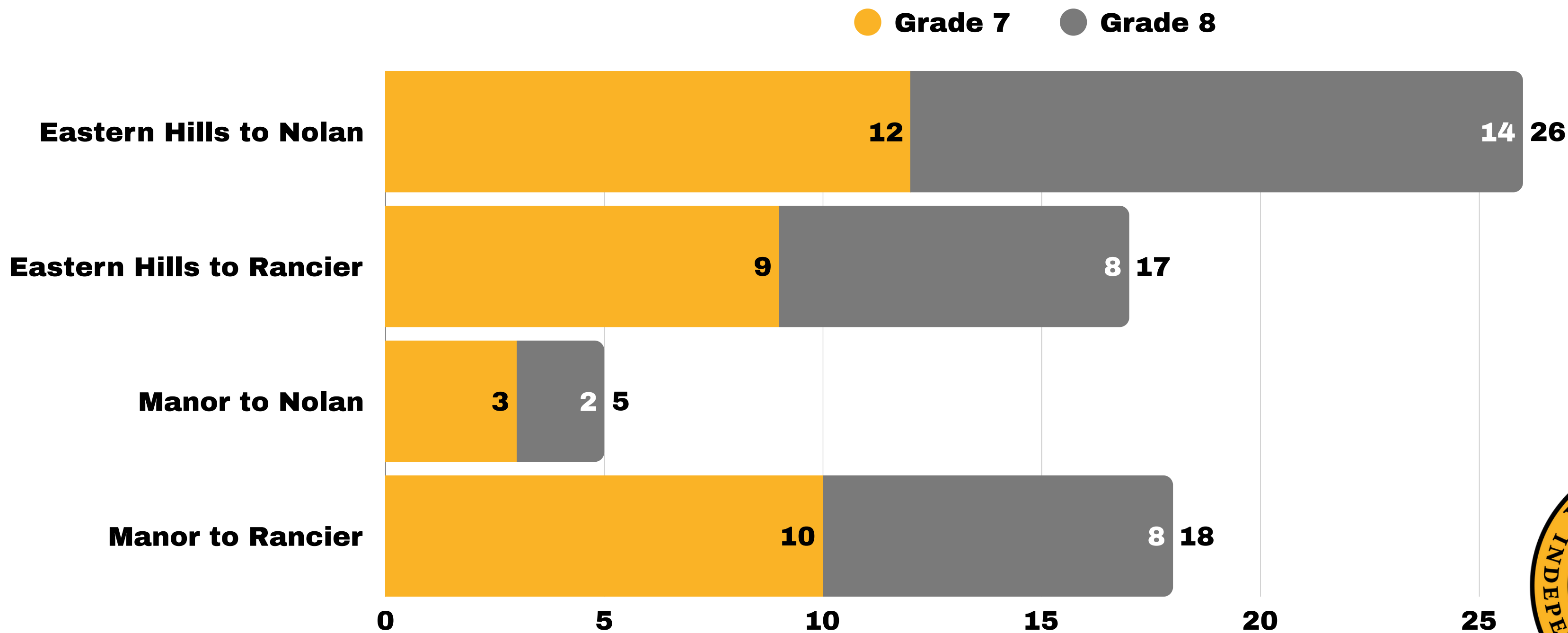
# MS STEM ACADEMY

Campus Student Membership by Grade 2025 - 2026



# MS STEM ACADEMY

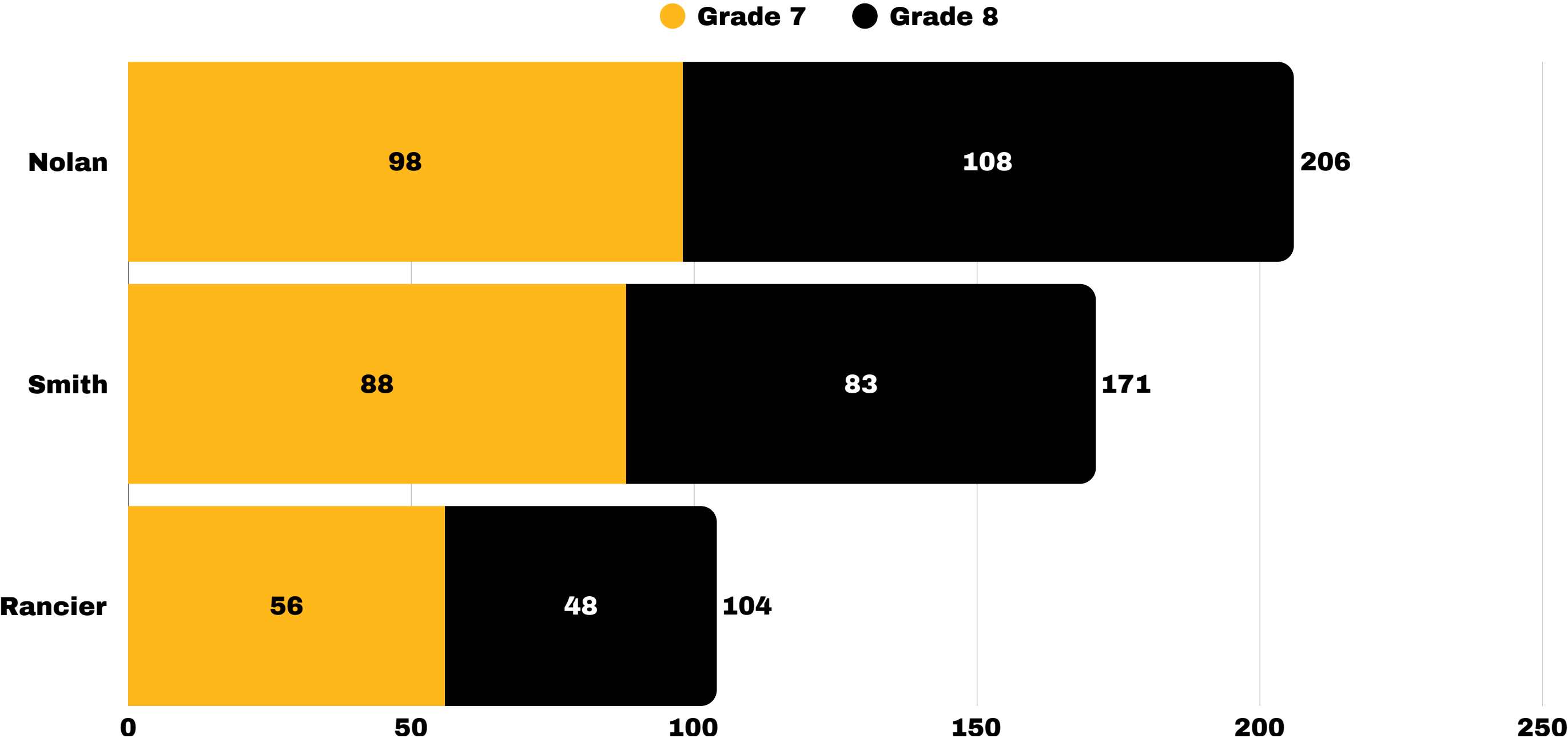
## 2026 District Optimization Projected Locations





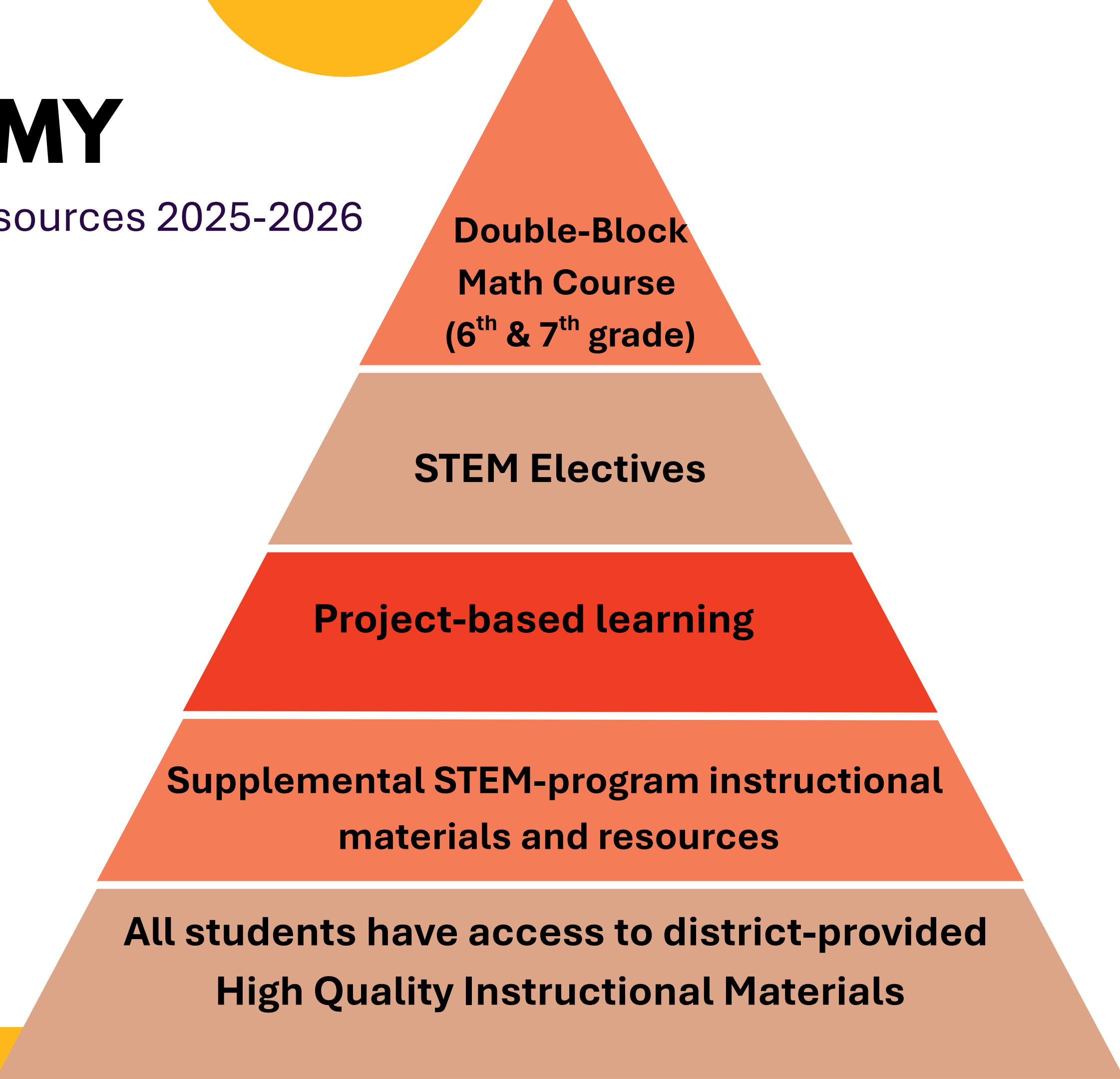
# MS STEM ACADEMY

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



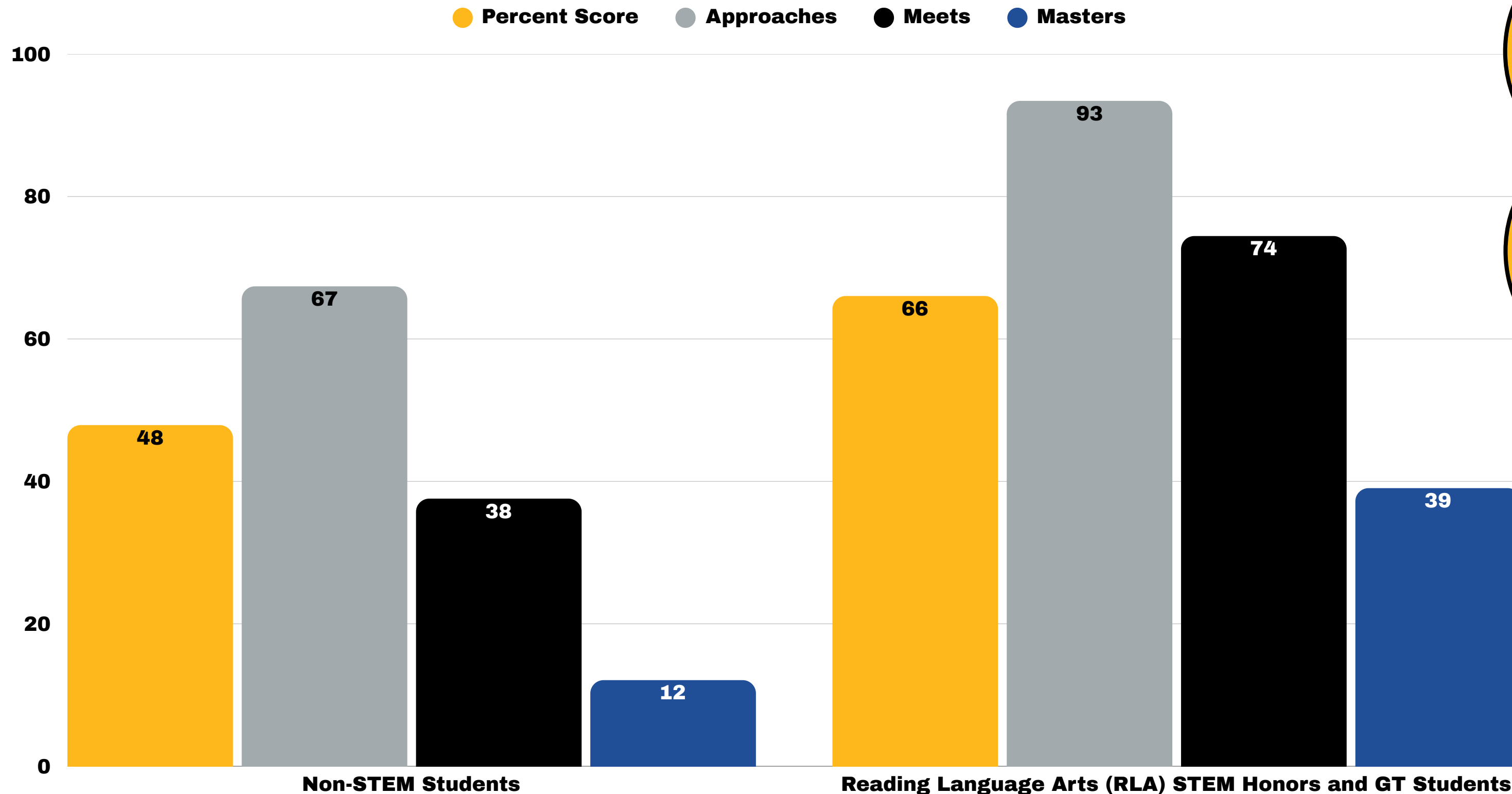
# MS STEM ACADEMY

Curriculum Resources 2025-2026



# MS STEM ACADEMY 2025 STAAR / EOC ACHIEVEMENT

## May 2025 STAAR Reading, Grade 6



In addition, other unique STEM program features:

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

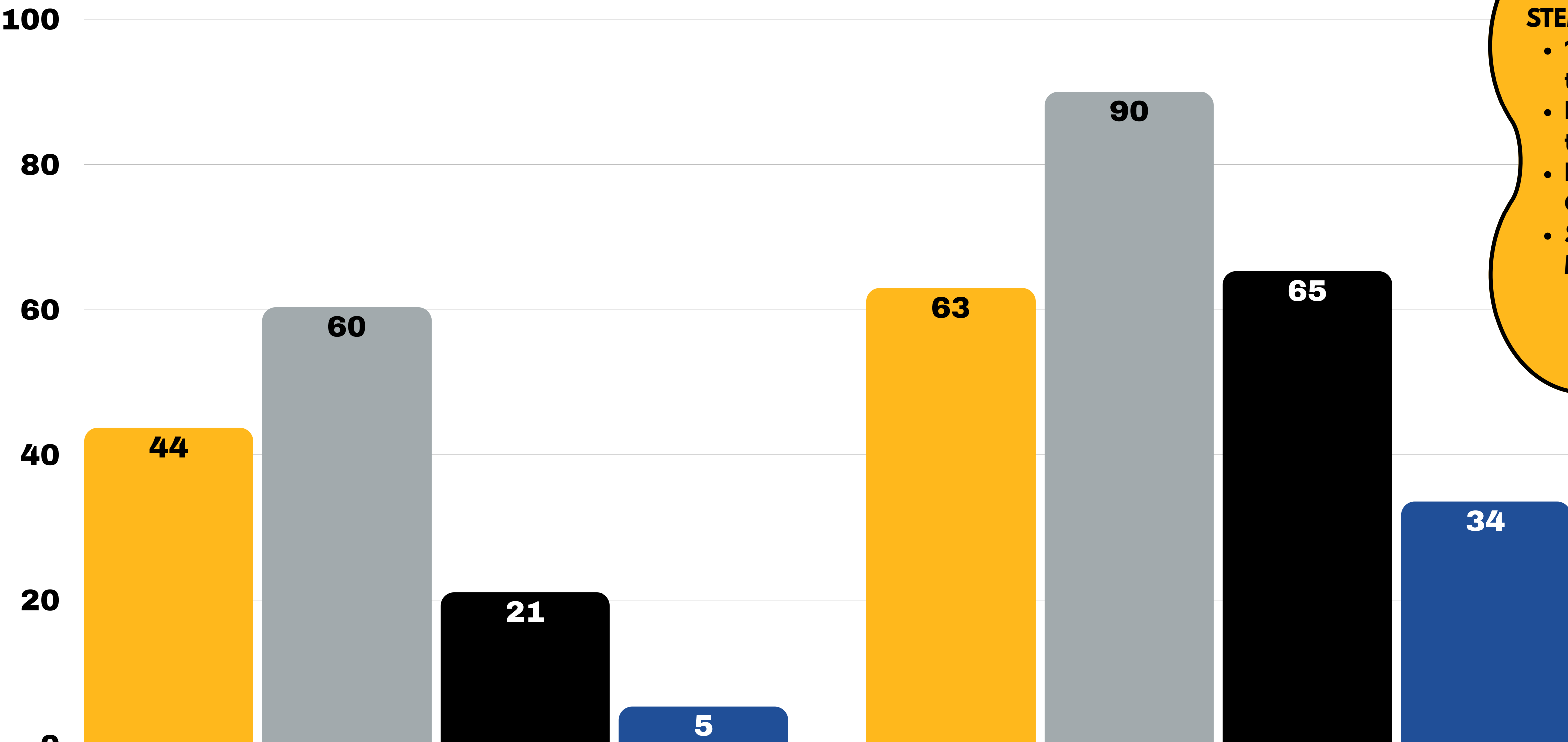




# MS STEM ACADEMY 2025 STAAR / EOC ACHIEVEMENT

## May 2025 STAAR Mathematics, Grade 6

● **Percent Score**    ● **Approaches**    ● **Meets**    ● **Masters**



In addition, other unique STEM program features:

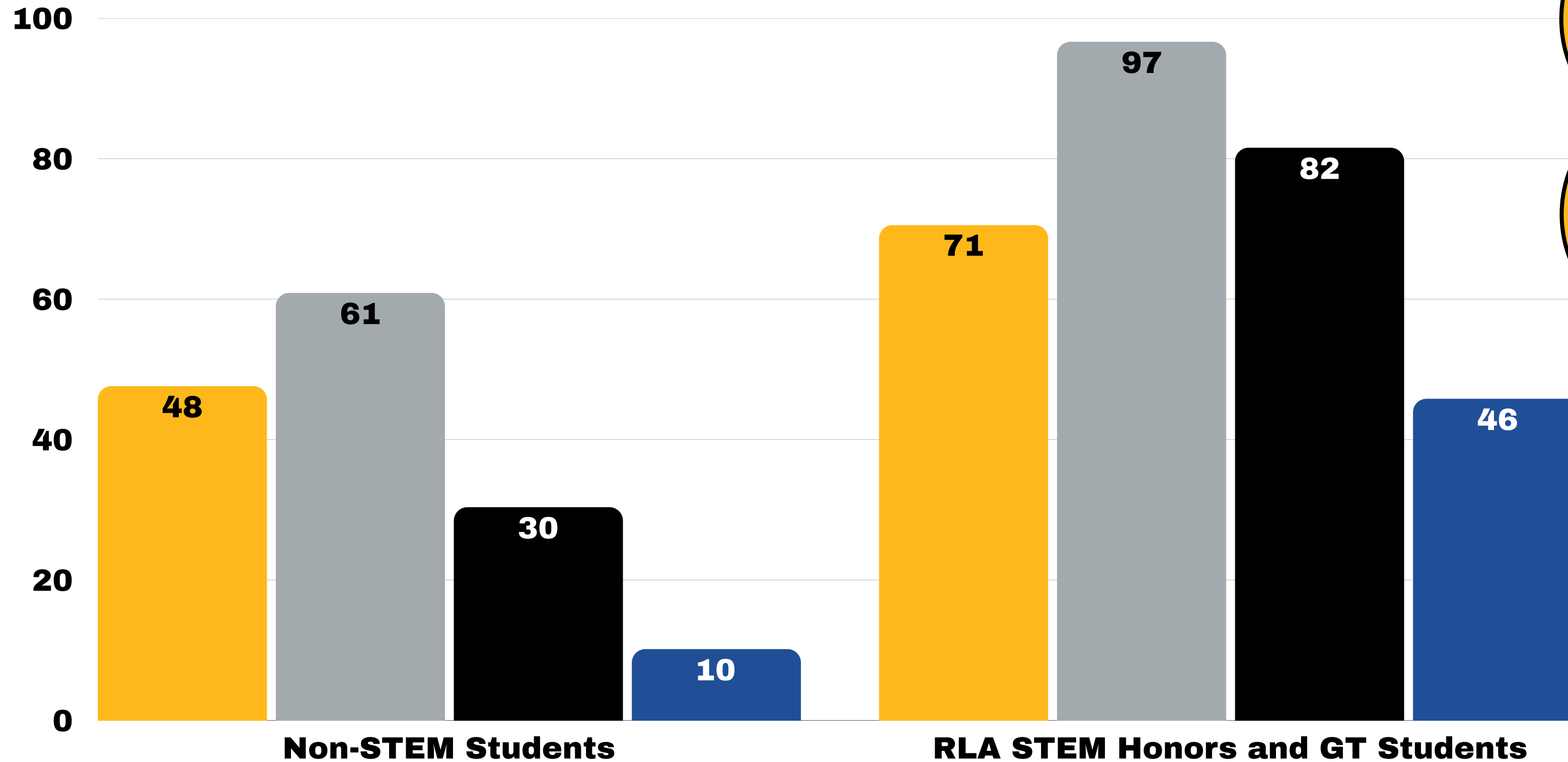
- 100% certified teachers
- Limited teacher turnover
- Double Block Math Course
- Supplemental Material Used:
  - Delta Math
  - ST Math



# MS STEM ACADEMY 2025 STAAR / EOC ACHIEVEMENT

## May 2025 STAAR Reading, Grade 7

● **Percent Score**    ● **Approaches**    ● **Meets**    ● **Masters**



In addition, other unique STEM program features:

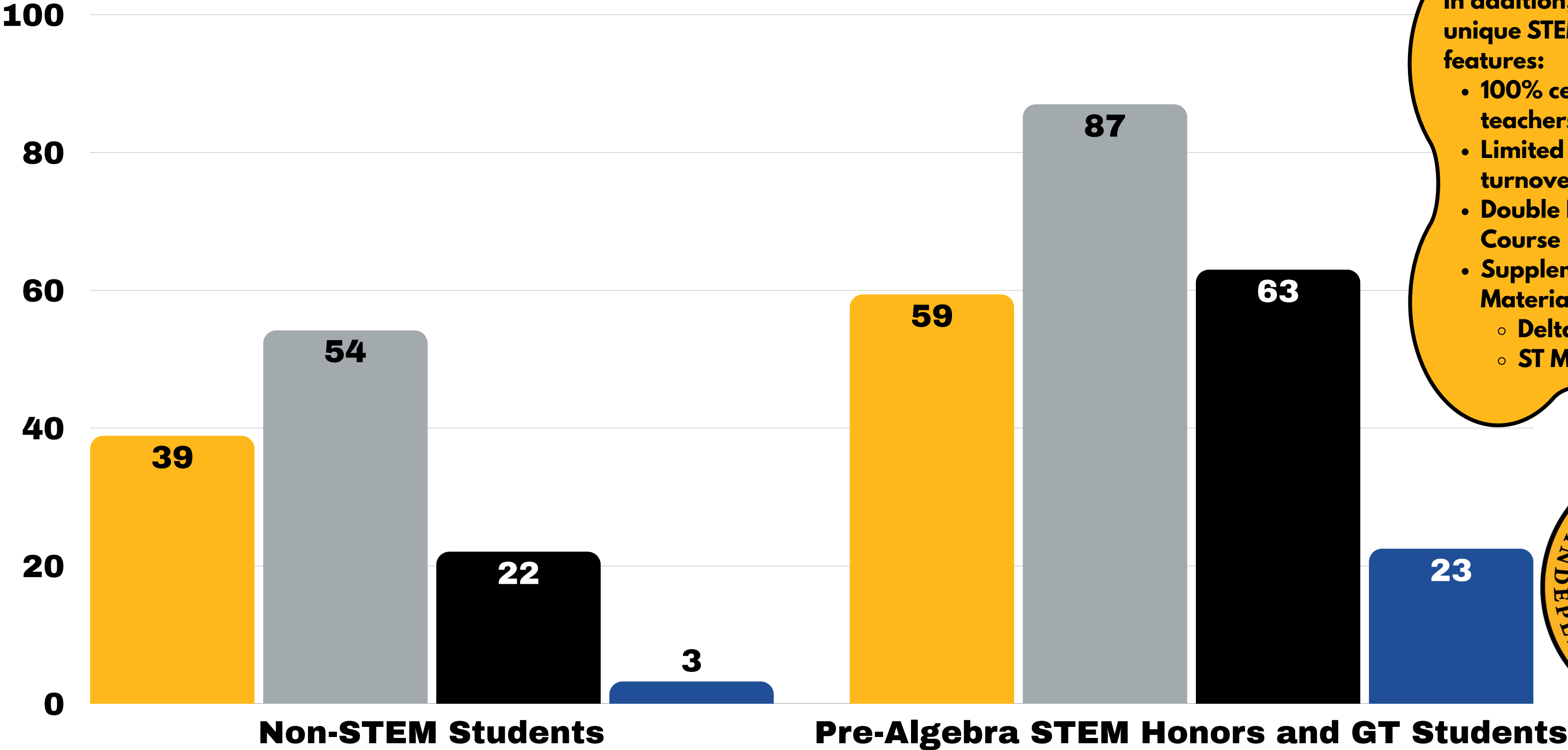
- 100% certified teachers
- Limited teacher turnover
- Supplemental Material Used:
  - Achieve3000



# MS STEM ACADEMY 2025 STAAR / EOC ACHIEVEMENT

## May 2025 STAAR Mathematics, Grade 8

● **Percent Score**    ● **Approaches**    ● **Meets**    ● **Masters**



In addition, other unique STEM program features:

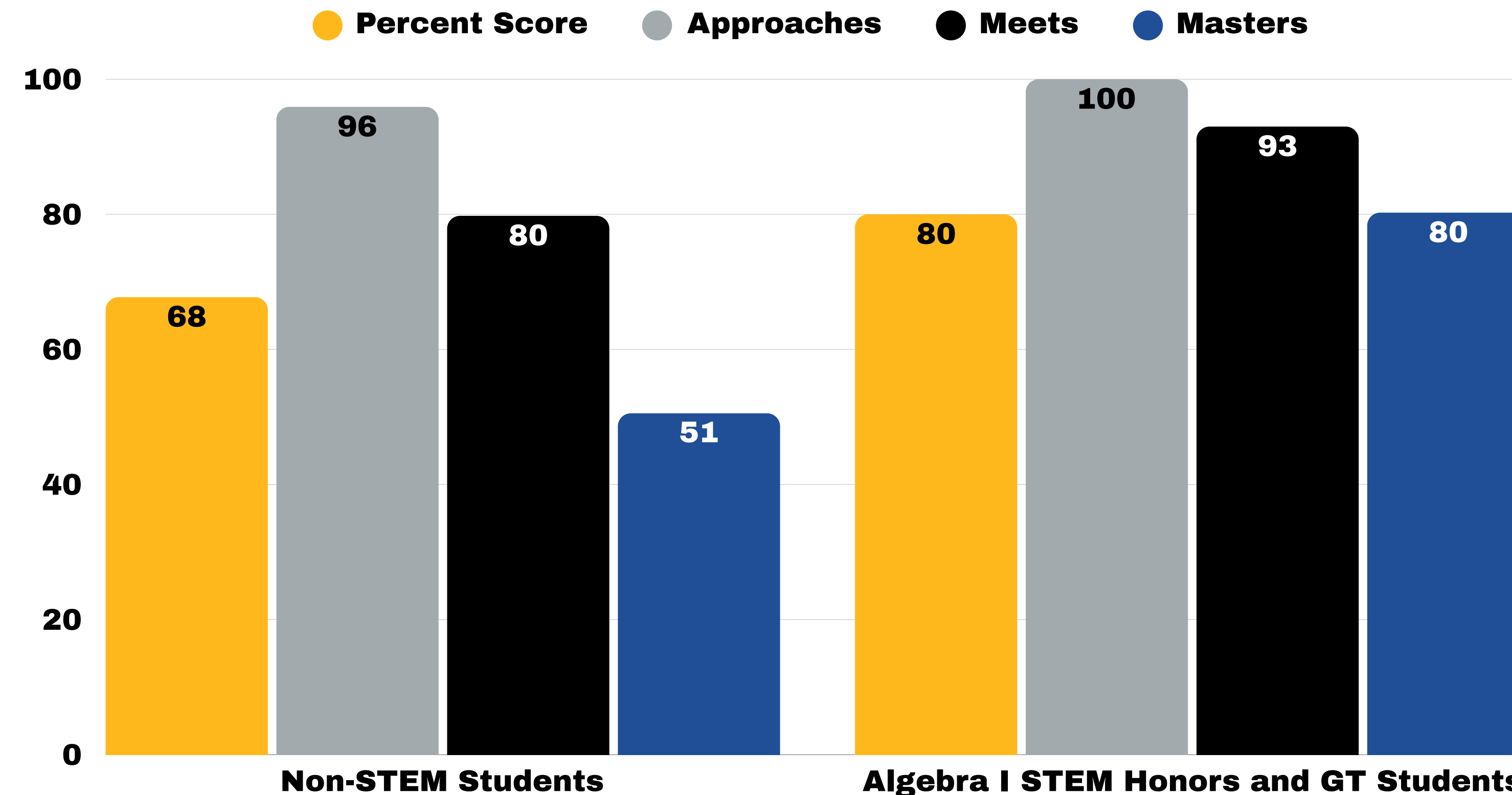
- 100% certified teachers
- Limited teacher turnover
- Double Block Math Course
- Supplemental Material Used:
  - Delta Math
  - ST Math





# MS STEM ACADEMY 2025 STAAR / EOC ACHIEVEMENT

## Spring 2025 STAAR EOC Algebra I



In addition, other unique STEM program features:

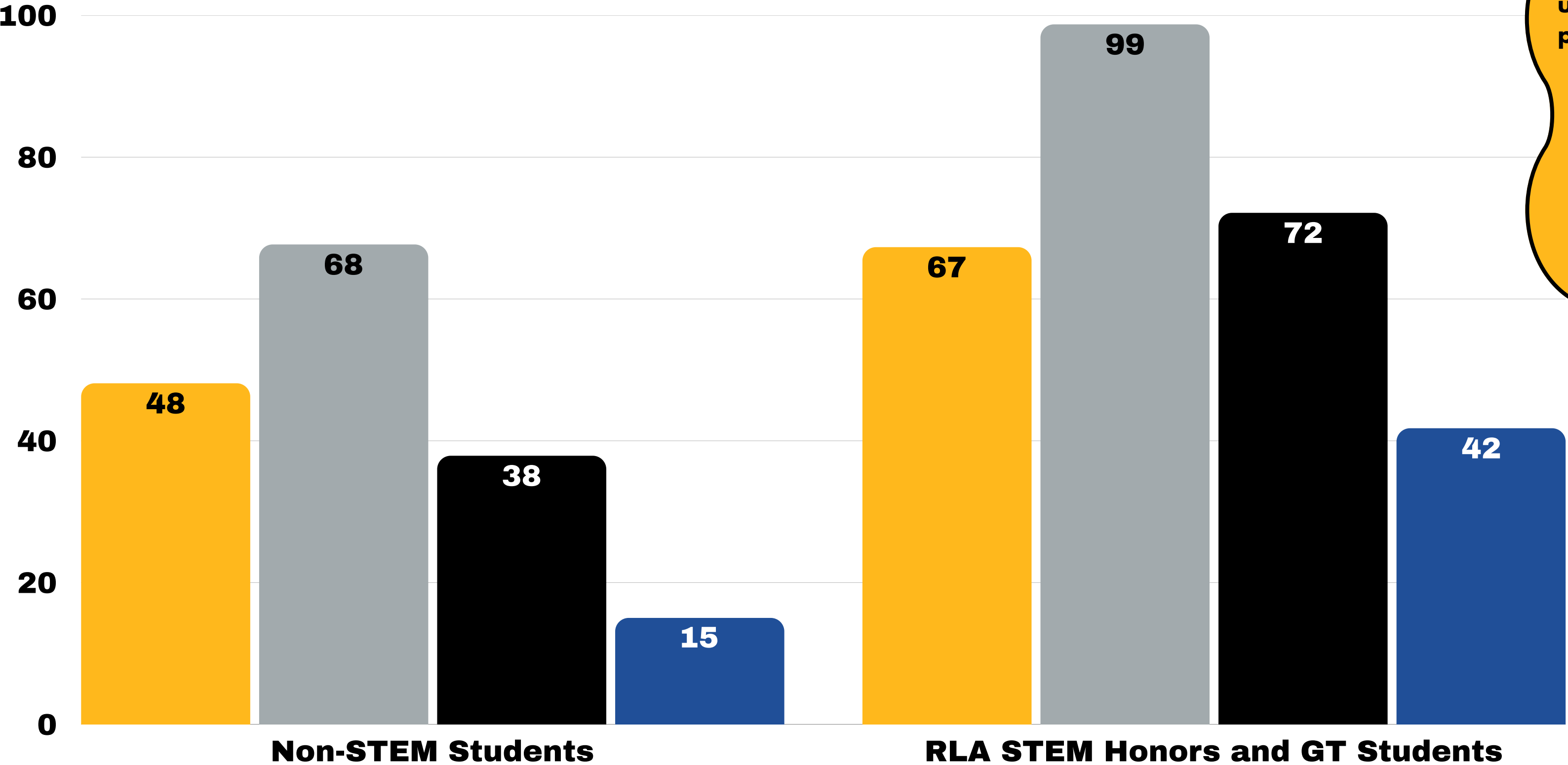
- 100% certified teachers
- Limited teacher turnover
- Supplemental Material Used:
  - Delta Math



# MS STEM ACADEMY 2025 STAAR / EOC ACHIEVEMENT

## May 2025 STAAR Reading, Grade 8

● **Percent Score**    ● **Approaches**    ● **Meets**    ● **Masters**



In addition, other unique STEM program features:

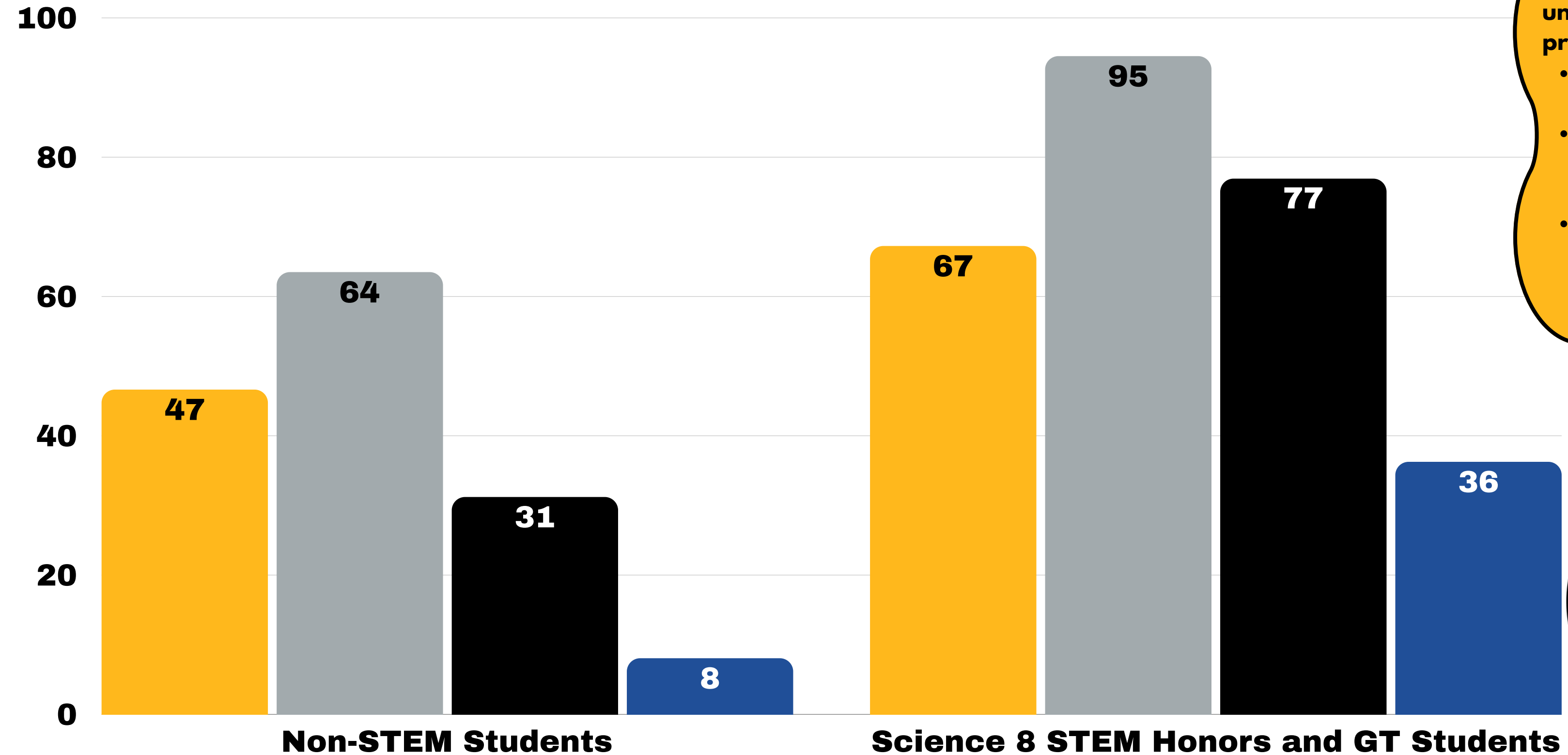
- 100% certified teachers
- Limited teacher turnover
- Supplemental Material Used:
  - Achieve 3000



# MS STEM ACADEMY 2025 STAAR / EOC ACHIEVEMENT

## May 2025 STAAR Science, Grade 8

● **Percent Score**    ● **Approaches**    ● **Meets**    ● **Masters**



In addition, other unique STEM program features:

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

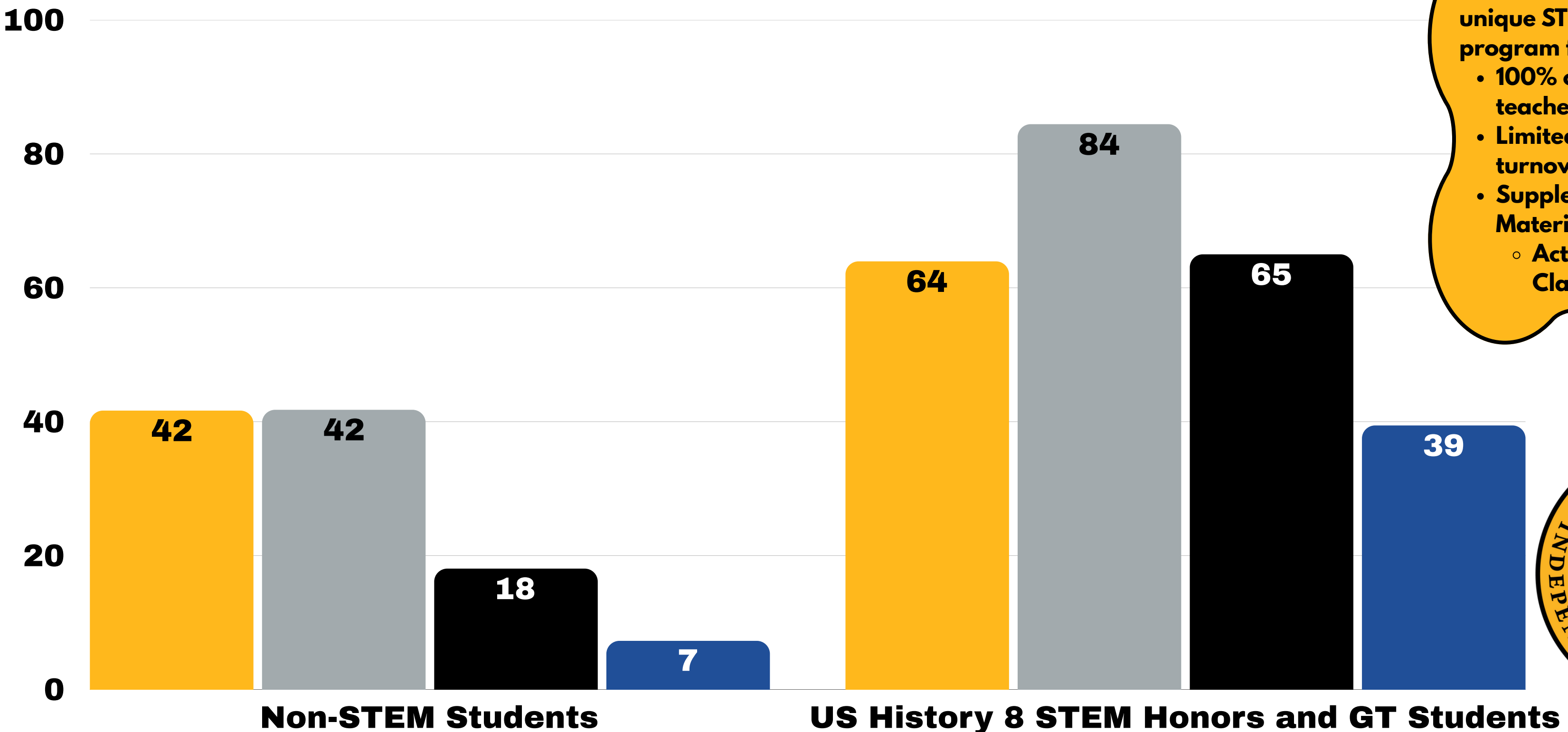




# MS STEM ACADEMY 2025 STAAR / EOC ACHIEVEMENT

## 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?**