

Kentucky Board of Education  
February 2024

# ANNUAL UPDATE

ACCESS TO ALGEBRA  
COLLEGE READINESS PROGRAM

advanceky.com





AdvanceKentucky staff at Fall Forum (Louisville, KY)

# About Us

**Anthony Mires, Executive Director**  
**Aaron Timmons, College Readiness Program Director**  
**Annette Williams, Access to Algebra Director**  
**Monique Rice, Computer Science Initiatives Director**  
**Lew Acampora, Senior Content Director, Science**  
**Stephanie Carter, Content Director, English and Capstone**  
**Michael Marshall, Content Manager, Math**  
**Sheri McGuffin, STEM Coordinator**  
**Elizabeth Lavigne, Senior Executive Assistant**  
**Jessica Sanford, Executive Assistant/Data Specialist**

## Mission

To **create opportunities** for all Kentucky students to have **access** to and **success** in rigorous STEM coursework, particularly among populations traditionally **underrepresented** in these courses, enabling them to pursue **advanced college and career opportunities**.

## Statewide Participation

2023-2024	Teachers	Students
Access to Algebra (A2A)	96	4054
College Readiness Program (CRP)	99	2428



Teachers attending A2A Leader Assembly/CRP Launch Day (Louisville, KY)



# 2022-2023 Grade 8 College Readiness

In 2023, grade 8 students continued to rebound after COVID with an increase of 12 percentage points in students meeting the College Readiness benchmark of 430 on the PSAT 8/9 exam.



Key Metrics	
<b>College Readiness</b>	Grade 8 college readiness increased from 2022 by 12 percentage points
<b>Student Growth from 7th to 8th Grade</b>	In 2022, 37% of grade 7 participants were “in range” to meet College Readiness benchmark on PSAT 8/9, and 39% actually met benchmark by grade 8
<b>Incentives</b>	\$110,000 awarded in teacher and student incentives



Shelby County teachers at Laying the Foundation Training (Shelbyville, KY). A total of 120 Kentucky math teachers were trained in 2023.



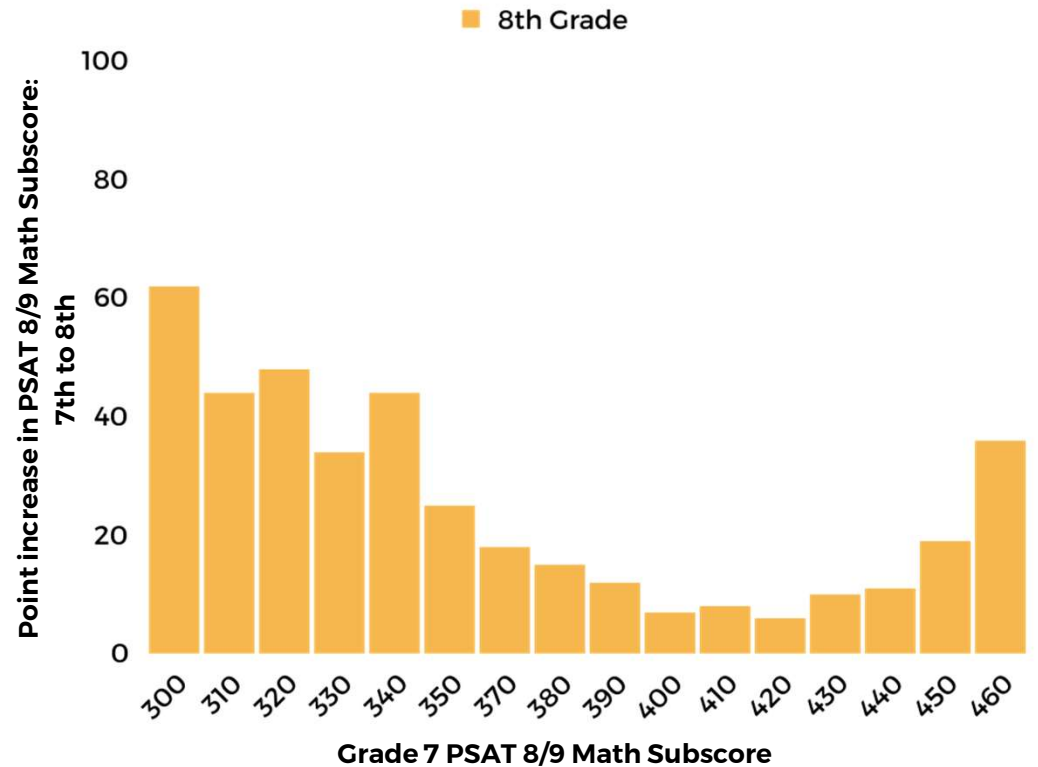
# The Importance of Grade 8 Algebra I

For the past five years, AdvanceKentucky has worked with middle schools across the state to increase grade 8 students' exposure to algebra. A study published by AdvanceKentucky in 2023 shows the impact of course-taking patterns on student growth from grade 7 to grade 8.



Recent data suggests that 72% of all students in middle school could see significantly higher PSAT 8/9 math scores in grade 8 if they enroll in Algebra 1 or higher and nearly half of these students would be in range to meet the grade 8 math benchmark.

### Comparison of Growth for 8th Grade Students Taking 8th Grade Math vs. Algebra 1



\*430 is the math benchmark set by College Board for grade 8 students to be on track for college readiness in math by the time they graduate high school.

\*\* 2,307 of 7,053 students, or 32.7%, were enrolled in grade 8 general math with baseline 7th grade PSAT 8/9 scores between 370 and 420.

Source: AdvanceKentucky and the College Board





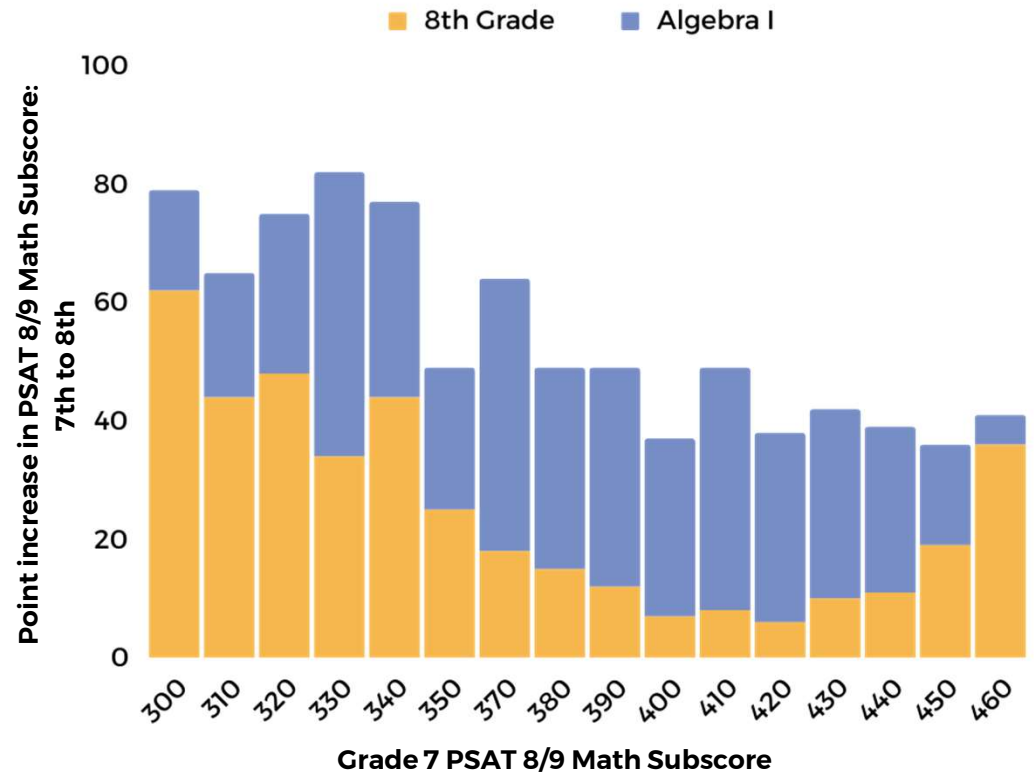
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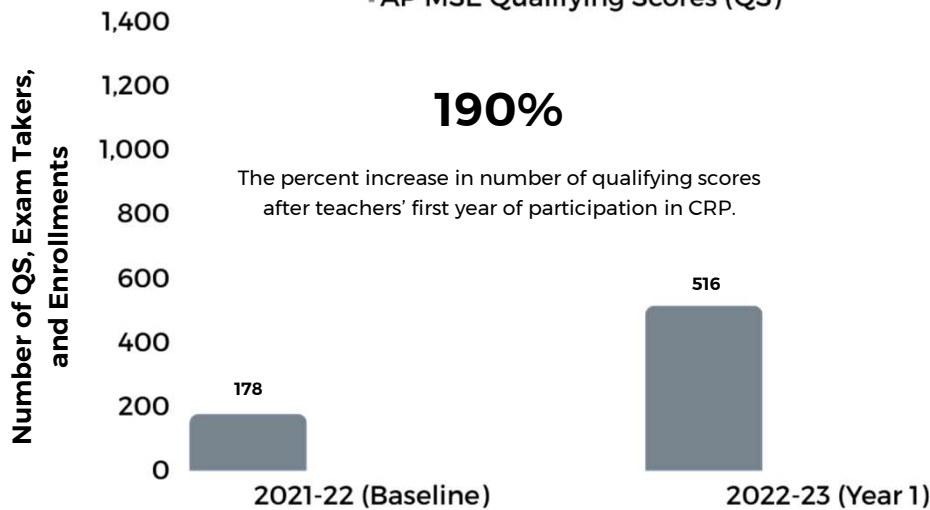


# 2022-2023 Highlights

2023 Exam Taking Rates	Underrepresented Minorities	Economically Disadvantaged	All Enrollments
Statewide (All AP)	67%	71%	78%
CRP (AP math, science and English)	80%	85%	89%

## 2023 Advanced Placement (AP) Teachers' First Year Performance

AP MSE Qualifying Scores (QS)



AdvanceKentucky's CRP supports AP math, science, English, computer science, and Capstone courses.



"I have deeply appreciated all of the resources given to me by AdvanceKentucky. I would not be nearly as successful without the help of this program!"

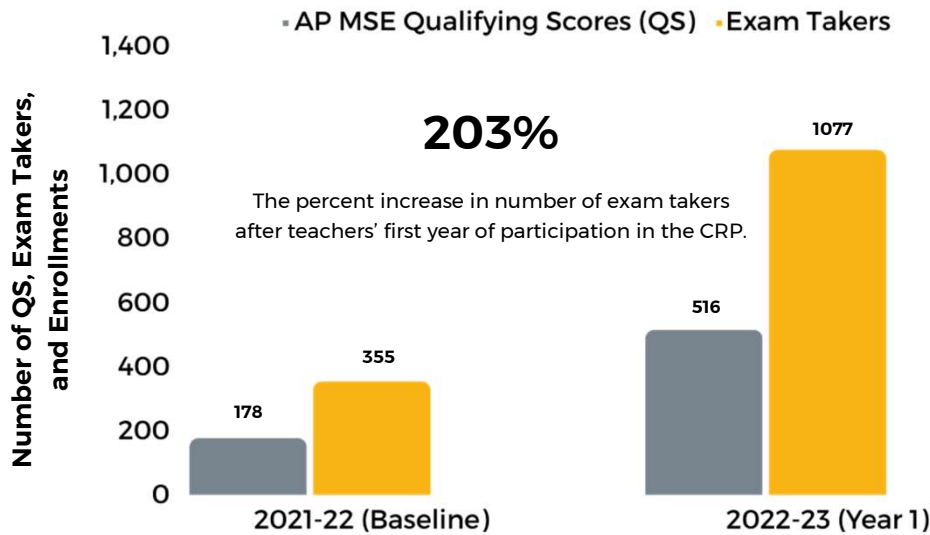
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## 2023 AP Teachers' First Year Performance



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Shawn Ransom's AP Statistics class  
(Bryan Station HS; Lexington, KY)

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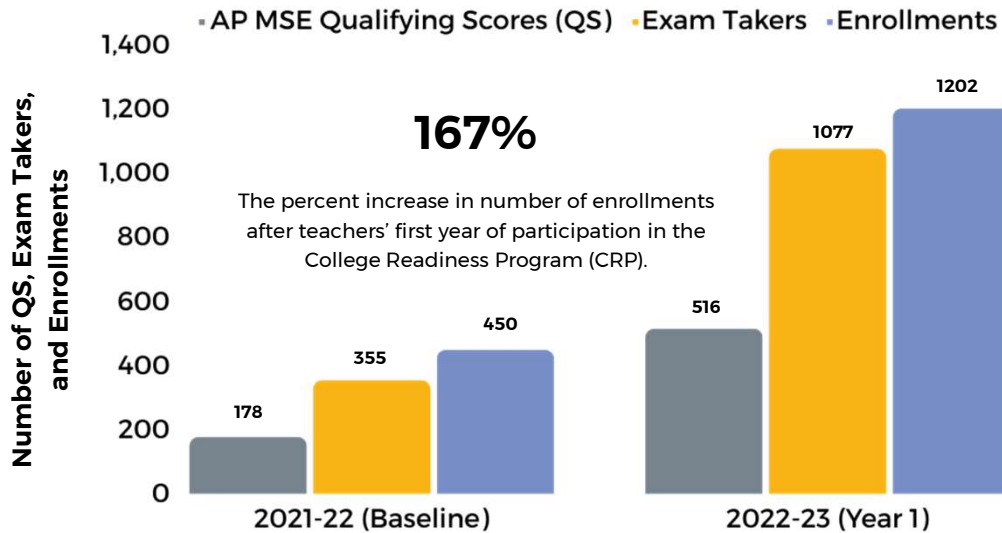




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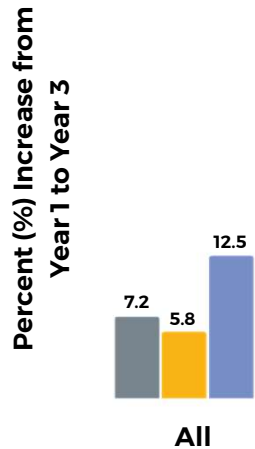
# 3-Year Program Impact

## The Importance of Teacher Retention

Teachers who complete three years in CRP see increases in student enrollment, exam takers and qualifying scores across multiple groups from Year 1 to Year 3.

### Data Metrics for Teachers Completing 3 Years of the College Readiness Program

- Enrollments
- Exam Takers
- QS



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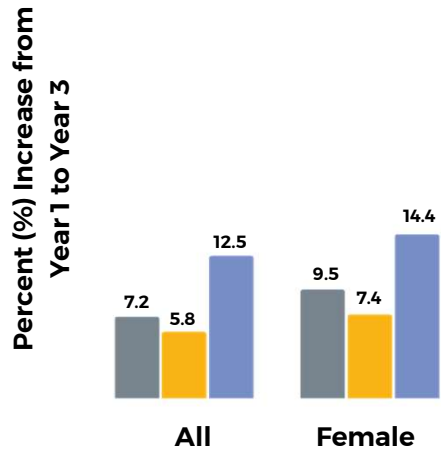
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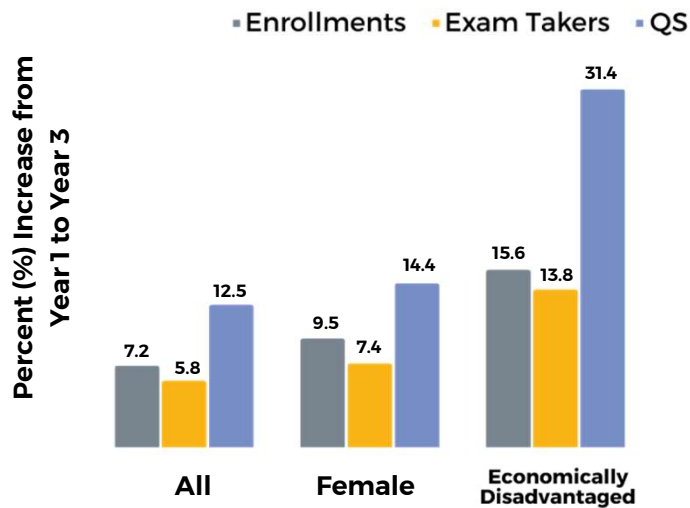


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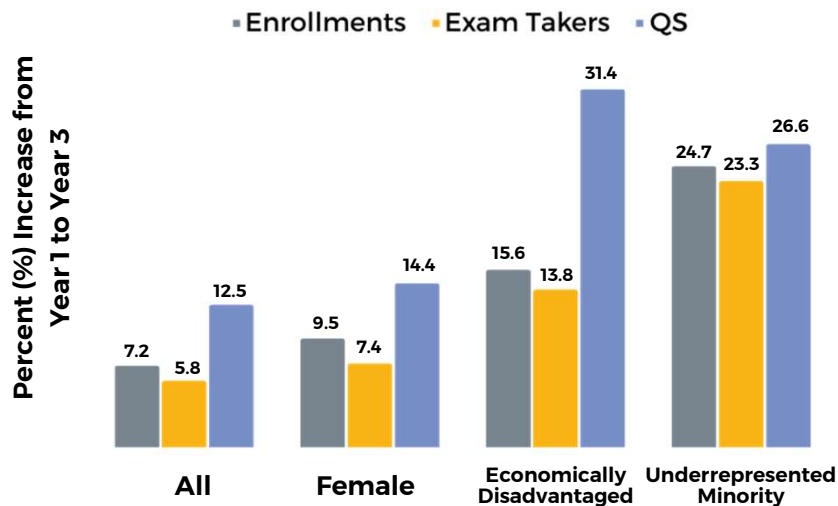


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# THANK YOU

ANTHONY MIRES  
ANNETTE WILLIAMS  
AARON TIMMONS



*Students from Herald Whitaker Middle School in Magoffin County earn incentives for achievement and growth in college readiness (Salyersville, KY).*