

JLEOC Presentation: Advanced Courses in Mathematics

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Advanced Courses in Mathematics Legislation

(SL 2019-120)

Goal: To broaden access and successful participation in advanced courses. To guarantee the opportunity to access advanced coursework in mathematics for those students who demonstrate readiness, regardless of student's address and demographic factors.

Report: Submitted in December, focuses on placement of eligible students

2023 Report Highlights

During the 2022-23 school year

- **58,186** students in grades 6-12, were eligible for placement in advanced math courses. ***This is an increase of 9,032 exam scores over the previous year.*** Of those eligible students:
 - **94%** (54,580) are **currently placed** in an advanced mathematics course, and
 - **6%** (3,606) are **not currently placed** in an advanced mathematics course.

**Continue to increase percent of eligible students enrolled in advanced mathematics courses. (2% above 2022 reporting year)*

Key Data Overtime

Each year shows an increase in both number of students scoring at highest level on mathematics assessments and percent of these students placed in advanced mathematics courses in the following year.

Three-year review of the number and percent of students scoring at highest level and then placed in an advanced course

	2021-22	2022-23	2023-24
Number of students scoring at highest level	29, 079	49,154	58,186
% of those students placed in advanced course	91% placed	92% placed	94% placed

2023 Report Highlights

During the 2022-23 school year:

For **eligible 8th grade students**, data indicates that the overall number and percentage of students placed in Math 1 or other advanced mathematics courses is again **>95%**, with a 1% increase over the 2022-2023 reporting year.

This is true across ALL race/ethnic groups

Before the legislation (2017-18), only 87% of eligible 8th grade students accessed NC Math 1 in 8th grade.

Key Data Overtime

- Data indicates middle school students are more likely to access advanced courses beginning in 6th grade.
 - In 2020-21, only 53% of eligible 6th grade students accessed an advanced mathematics course.
 - In the current school year, the number has grown to **90%** of eligible 6th grade students accessing an advanced mathematics course.
- Data shows 94% of eligible males and females across grades 6-13, are placed in advanced math courses.

Implementation Challenges

- Support for students when they place the first time
- Teacher staffing for mathematics
- Practices in some high schools of having students retake courses if taken in middle school
- Advanced learning opportunities/courses in middle schools
- Mindsets around acceleration

Next steps:

- Review data for possible disparities
- Determine if there are adequate opportunities across all grade levels
- Possibly expand to other areas for auto-enrollment

National Recognition:

Johns Hopkins School of Education
Institute for Education Policy Brief

Shares how NC is model for auto-enrollment

See: <https://jscholarship.library.jhu.edu/server/api/core/bitstreams/43bc8b47-7fd8-40d4-a75c-520f7ae53a4f/content>

Also handout