

MIDDLE SCHOOL ACCELERATION

A Shift in Standards

Pre-CCSS Algebra 1 vs. CCSS Grade 8

Topic	Pre-CCSS Algebra 1	CCSS Grade 8
Linear Equations/Functions	✓	✓
Systems of Equations	✓	✓
Exponents & Roots	✓	✓
Functions (Formal)	✗	✓
Geometry Concepts	✗	✓
Pythagorean Theorem	✗	✓
Statistics	✗	✓

Who is Accelerated in Connecticut Middle Schools?

% of Students in Algebra I

26.1%

Fall 2021

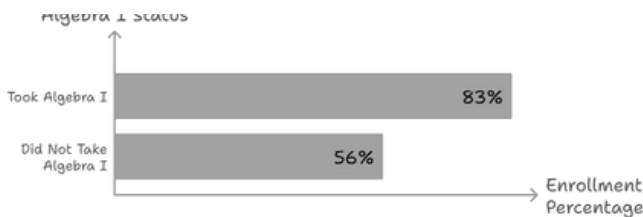
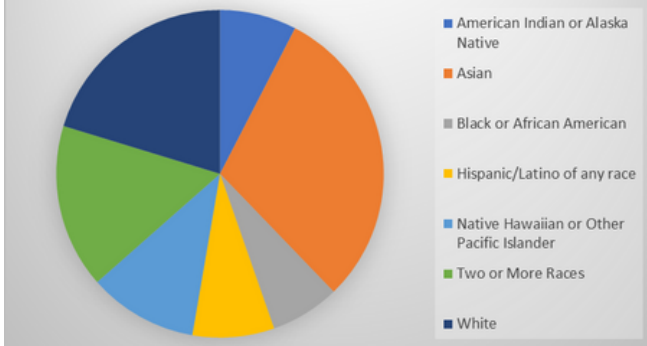
26.1%

Fall 2022

25.7%

Fall 2023

Average % of Students Taking Algebra I in Middle School by Race/Ethnicity (2021-2023)

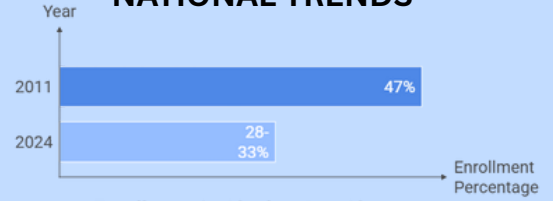


Advanced Math Course Enrollment by Algebra I Status

- Approximately 20% of students who take Algebra 1 in the middle school retake it in the high school

WHAT THE RESEARCH SAYS

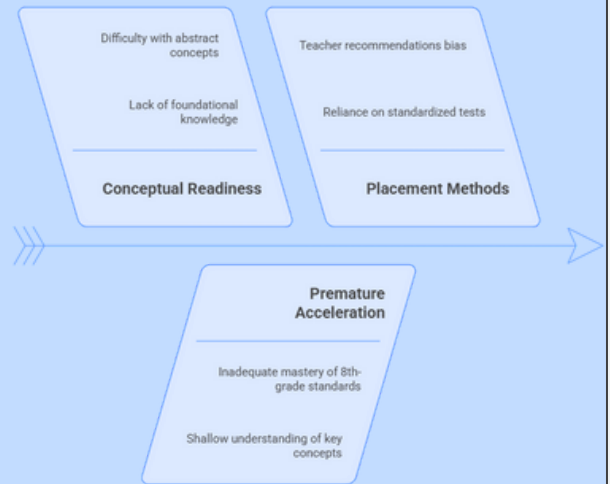
NATIONAL TRENDS



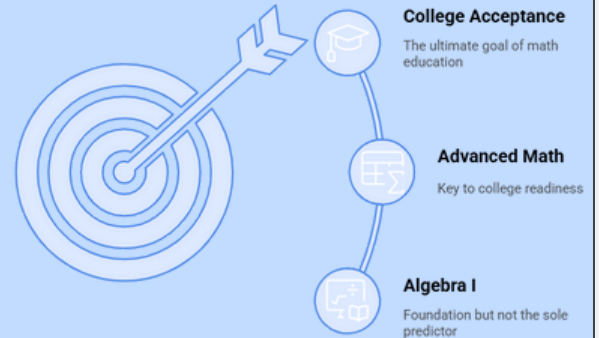
Enrollment in Algebra 1 or Above Among 8th Graders

READINESS

Challenges in Algebra 1 Readiness



ADVANCED MATH AND POST SECONDARY



EMERGING TRENDS

- Double Up
- Integrated Pathways
- 8.5 courses and flexible on-ramps
- Opt-in



