

Middle School Math





INVESTIGATE

What is known? What is and is not working? How feasible and desirable are the options?



INTERPRETIVE

Why are we doing this?
What are our overarching goals?

SPECULATE

What if? Could we do this differently? What can we simplify, combine, modify, or eliminate?

PRODUCTIVE

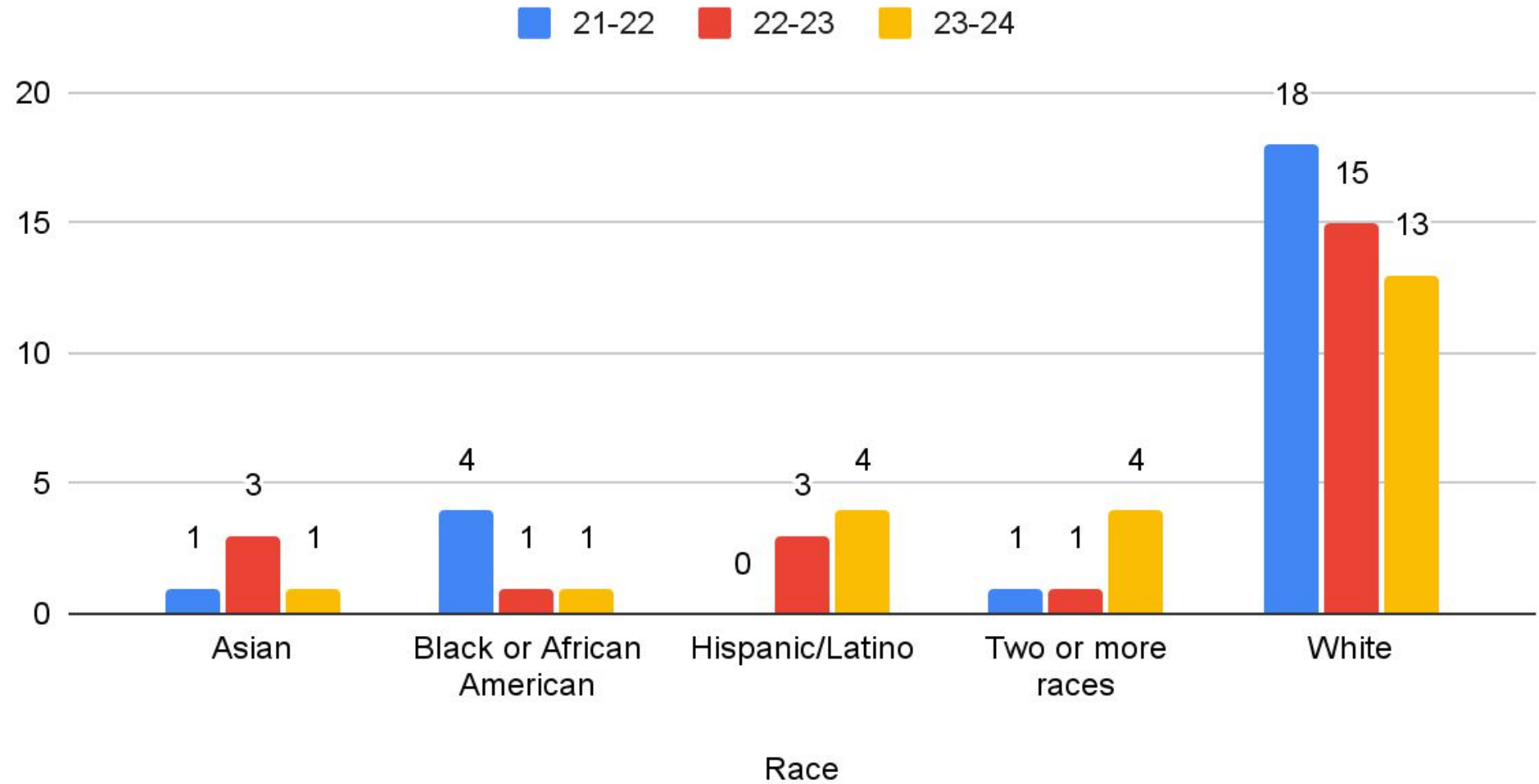
Now what? What is the next step? Do we know enough to proceed? Are we ready to decide?

SUBJECTIVE

What is unsaid? How do you feel about this decision? What aspect of it concerns you most? Are all stakeholders aligned?

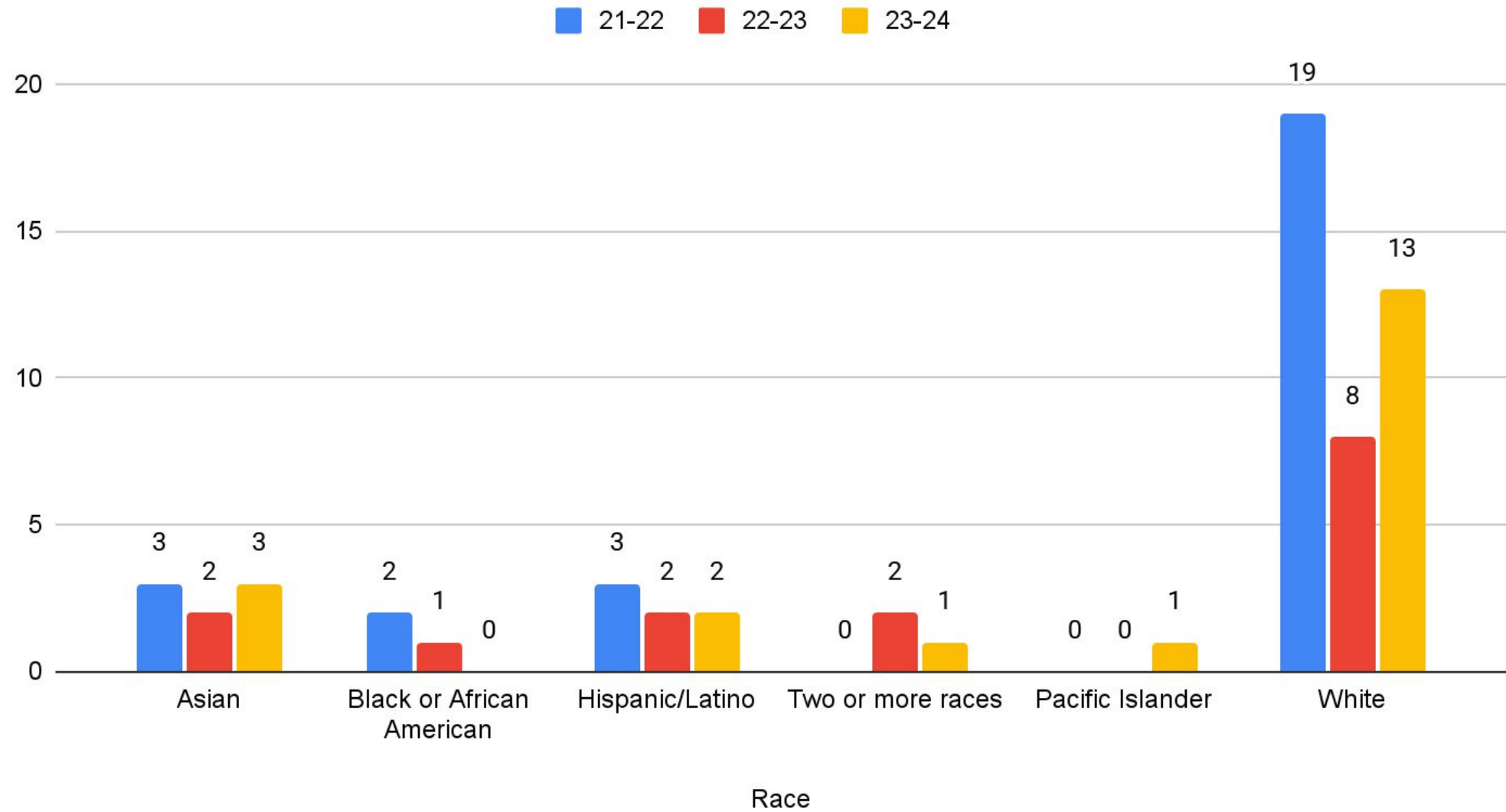


7th Grade Accelerated Enrollment Data by Race





8th Grade Algebra Elective Enrollment Data by Race



Project Milestones 2023-2024



October/ November

Collecting course information from HS and MS around the county. Engage in conversation with other school districts about math programming

September

Meeting with teachers and building level admin to gauge input and feedback on the strengths and struggles of the math department

01

02

03

November/December

Building level meeting to discuss possible changes to the current math programming. On going conversations with other districts

04

January

District-level meetings to discuss possible changes. Outlined three options and presented the strengths of each.

February / March

More building-level discussions about the proposed changes to examine blind spots. Meeting with the superintendent to discuss the proposals.

05

April/ May

Building and district-level meetings to discuss the proposal and get stakeholder input. Meeting with representatives from the board to discuss proposal details.

06

Project Milestones 2024-2025



October/ November

Meeting with grade 7 team to work on curriculum alignment and pacing. First STAR administration.

September

2 sections of 7th grade accelerated begin. Collaboration between HS Algebra H course and MS Algebra HS course.

01

02

03

November/December

Work with 7th and 8th grade team on curriculum alignment. Analyze common assessment results.

04

January

Meeting with MS math department to begin the process of selecting a new math resource.

February / March

Exploring resource options and preparing for selection. Second STAR administration. Continue to refine curriculum.

05

April/ May/June

Select and prepare for new resource adoption. Third STAR administration. Analyze progress of 7th grade accelerated classes. Plan for summer work to implement the new resource.

06



**How could we do
this differently?**



MIDDLE SCHOOL MATH

PROPOSAL 1

Starting in 2024-25 school year, eliminate the Algebra Elective course.

Run 1 section of Algebra in 8th grade.

Create 2 sections, one on each team of accelerated grade 7 math.

Create 2 sections of Algebra in the 2025-26 school year.

PROPOSAL 2

Starting in 2025-26 school year, eliminate the Algebra Elective course.

Run 1 section of Algebra in 8th grade

Run 1 section of the Algebra Elective

Create 2 sections, one on each team of accelerated grade 7 math.

Create 2 sections of Algebra in the 2025-26 school year.

PROPOSAL 3

Starting in 2024-25 school year, eliminate the Algebra Elective course.

Offer a summer program to students who wanted to take the elective to accelerate their learning and get them ready for Algebra

Run 2 sections of Algebra in 8th grade

Create 2 sections, one on each team of accelerated grade 7 math.

Create 2 sections of Algebra in the 2025-26 school year.

GRADE 9

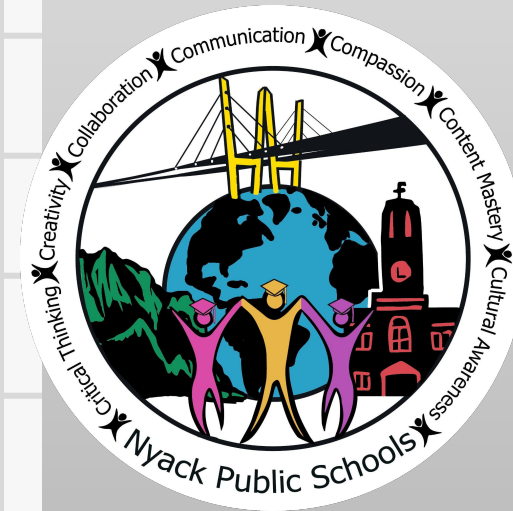
Eliminate Accelerated Geometry - students move to Geometry R/H



**What are our
overarching goals?**

Interpretive Phase

- More students can accelerate
- Smaller class sizes
- Better allocation of resources

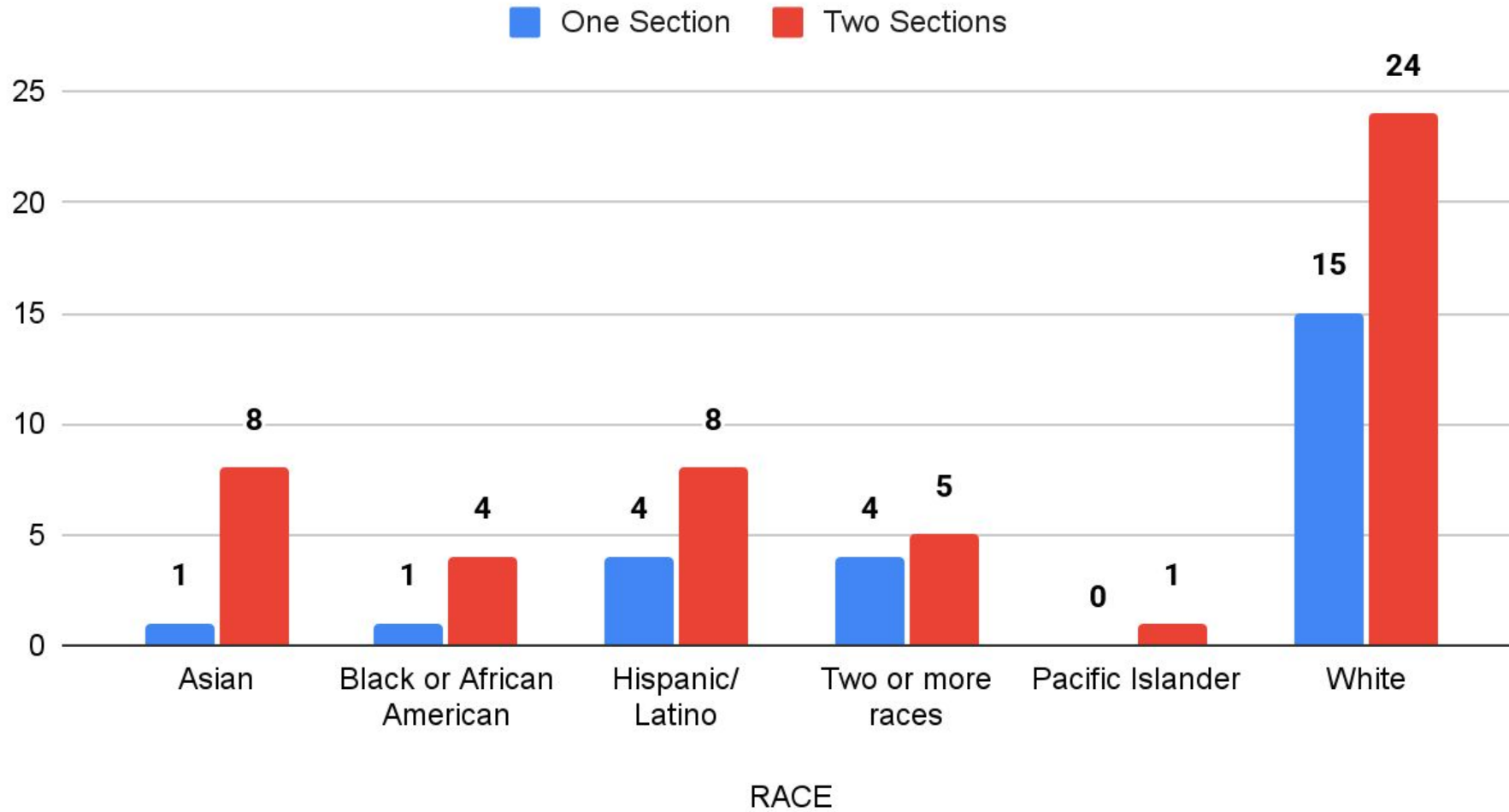




What if?



2023-2024 Data to Project Enrollment for 7th Grade Accelerated





Suggested Course Changes

Nyack Middle School Math Flow Chart 2024-2025 School Year



Grade 5

Grade 5 Math

Grade 6

Math 6

Grade 7

Math 7

Math 7
Accelerated

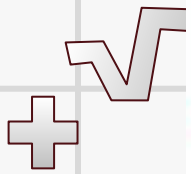
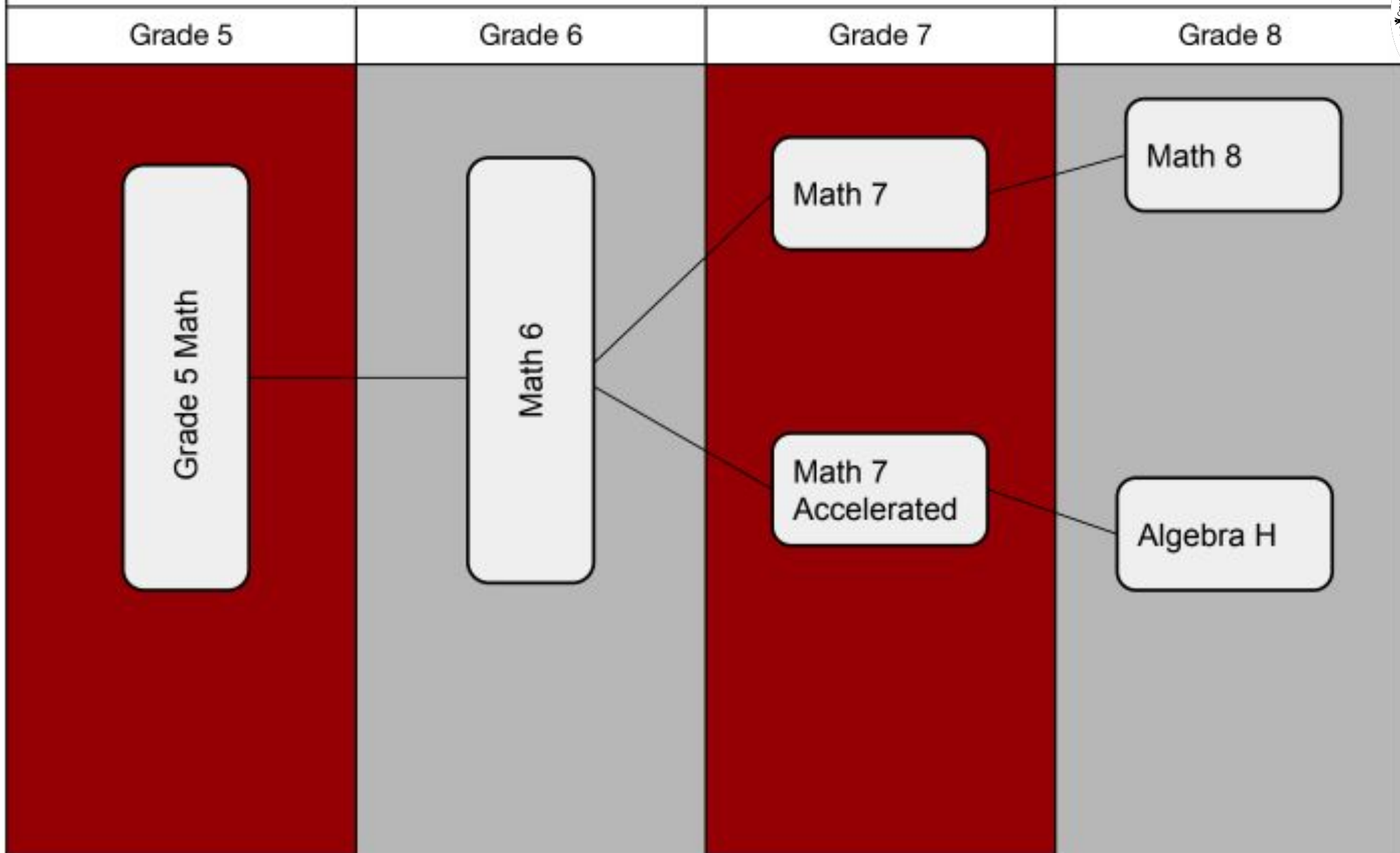
Grade 8

Math 8

Math 8 +
Algebra
Elective

Algebra H

Nyack Middle School Math Flow Chart 2025 and beyond School Years





Systems of Support



Middle School Teachers

- Professional development - build their pedagogical toolbox and content knowledge
- Aligned curriculum resource
- Collaboration within and beyond the school

District Wide Systems

Gauge milestones of success:

- Ready to read
- Reading on grade level
- Ready for High School

Vertical alignment throughout the district that promotes rigor and critical thinking

Common assessments and data analysis to catch gaps early

Culturally responsive teaching

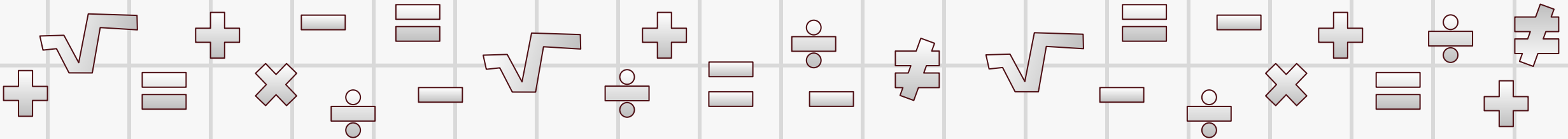
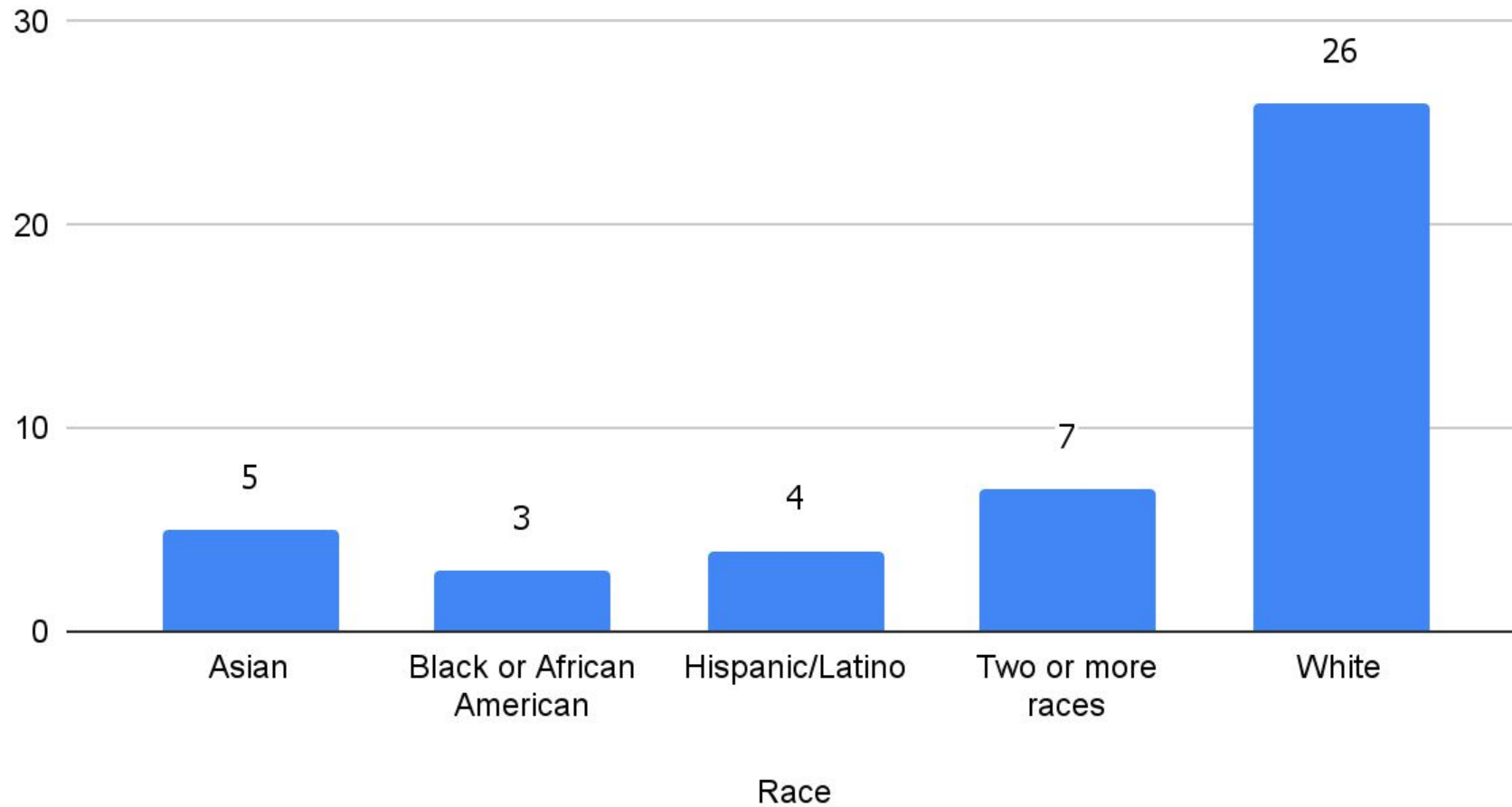




2024-2025



2024-2025 7th Grade Accelerated Enrollment Data by Race





What is happening:

- 2 sections of Accelerated 7th grade math
- Redesigned 8th grade Accelerated math to mirror HS Algebra Honors
- STAR screening assessment for all students in grades 6-8
- Investigating a common resource for all students

ACKNOWLEDGEMENTS & ACCOUNTABILITY

Board of Education:

Jen Marraccino, President
Benny Vasquez, Vice President
Jessica Goodman, Secretary
Bryan Burrell, Trustee
Michael Mark, Trustee
Elaine Philhower, Trustee
Matthew Watson, Trustee

Central Office Administration:

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Dave Johnson, Nyack Middle School Principal
Karissa Sullivan, Nyack Middle School Asst. Principal
Lucia Pichardo, Liberty Elementary School Acting Principal
Tom DiLeo, Upper Nyack Elementary School Principal
Lucrisha Addison Harris, Valley Cottage Elementary School Principal



RedHawk Ready!
Remember. Refresh. Reunify.



Slide Deck and Design for
Strategic Communications
in Nyack Public Schools
with Lisa Miner Retallack, PRCO
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