

# UNDERSTANDING MATH COURSE OFFERINGS

Herndon Middle School 2025 - 2026



# TEAM MEMBERS

- Dana Carvill  
Math Teacher  
Co-Department Chair

- Kelly Draeger  
Instructional Coach

- Ying Zhang  
Math Teacher  
Co-Department Chair

- Fran Furr  
Assistant Principal





# During our time together....



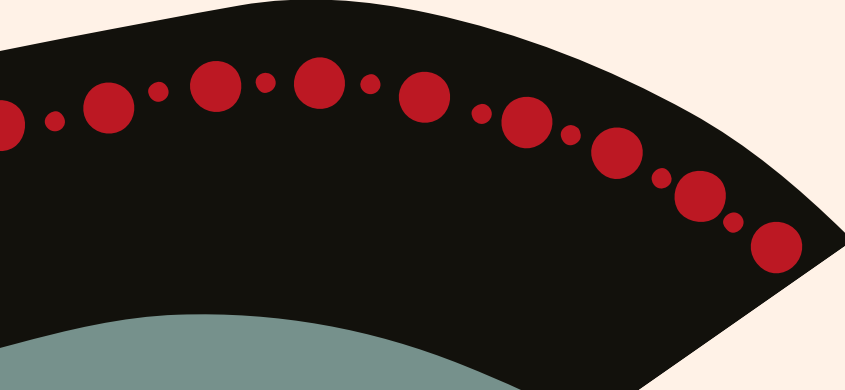
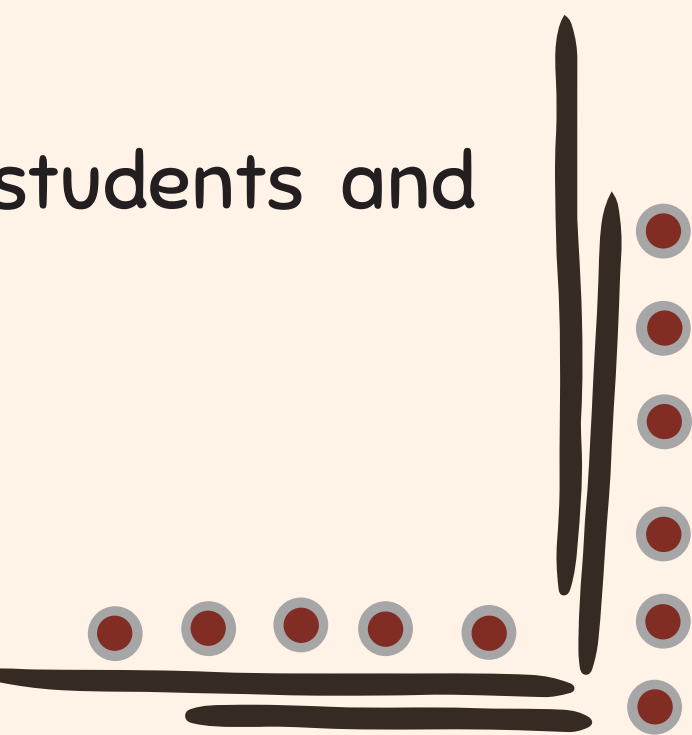
## Mathematics Opportunities

- Discuss how students can participate in mathematics throughout middle and high school

## Graduation Requirements

- Explain how to support students in navigating the various course offerings currently available in FCPS

## Course Pathways

- Show which course pathways are available beginning in middle school so students and families can start thinking about the available options
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# GRADUATION REQUIREMENTS FOR MATH

at least two different course selections from among: algebra I, geometry, algebra functions, and data analysis, algebra II, or other mathematics courses approved by the board to satisfy this requirement

Standard Diploma  
3 Math Credits

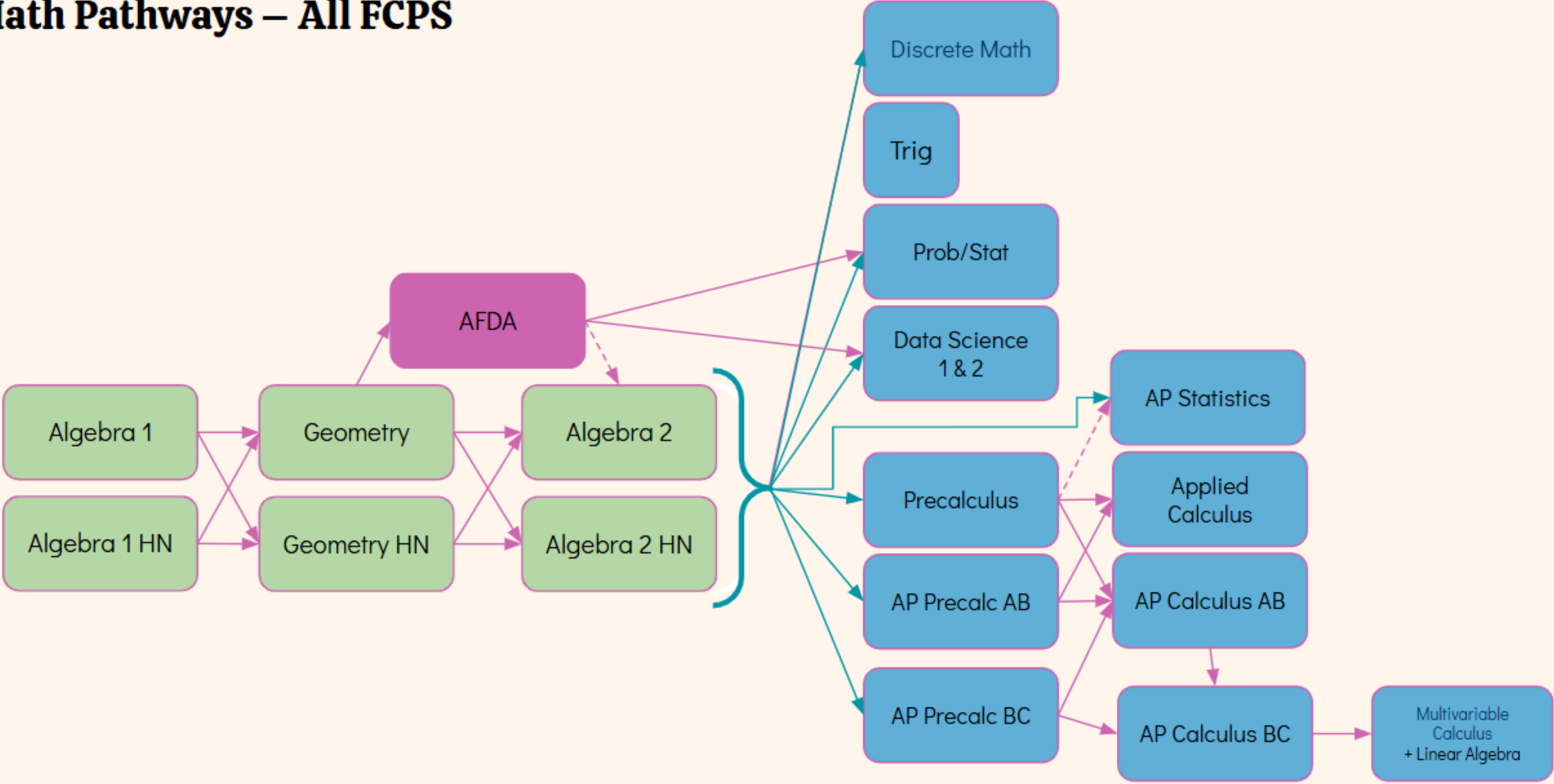
To Learn more about  
FCPS Graduation  
Requirements  
[Click Here](#)



at least three different course selections from among: algebra I, geometry, algebra II, or other mathematics courses above the level of algebra II. The board shall approve courses to satisfy this requirement.

Advanced Diploma  
4 Math Credits

# HS Math Pathways – All FCPS



At HMS, our mission is to provide our Hawks with a solid foundation in mathematics by engaging them in meaningful collaborative problem-solving experiences, promoting critical thinking, and nurturing their ability to apply mathematical concepts to real-world situations, setting the stage for future academic success and personal growth.



# MATH COURSES FOR 7TH GRADE STUDENTS

## Math 7

This course provides the opportunity for students to examine:

- Algebra and geometry preparatory concepts and skills
- Strategies for collecting, analyzing, and interpreting data
- Number concepts and skills with a focus on using rational numbers and understanding proportional reasoning.

# MATH COURSES FOR 7TH GRADE STUDENTS

## Math 7 Honors - Open Enrollment

This course:

- Has a rigorous pre-algebra foundation with many extensions and enrichment opportunities;
- Is an acceleration of the mathematics curriculum;
- Requires students to master the content assessed on the Mathematics 8 Standards of Learning (SOL) test;
- Is taught with a heavy emphasis on problem-solving.



# MATH COURSES FOR 7TH GRADE STUDENTS

## Algebra 1 Honors

Each of the following criteria needs to be met for placement in Algebra I Honors at 7th grade:

- Advanced Mathematics 6 or a year-long accelerated mathematics course
- Iowa Algebra Aptitude Test (IAAT) score at or above the 91st percentile
- A score of pass advanced (500 or above) on the Mathematics 7 SOL test

# MOVING FROM MATH 6TH TO MATH 7 HONORS

IS THIS A GOOD FIT FOR MY STUDENT?

Recommended for students who:

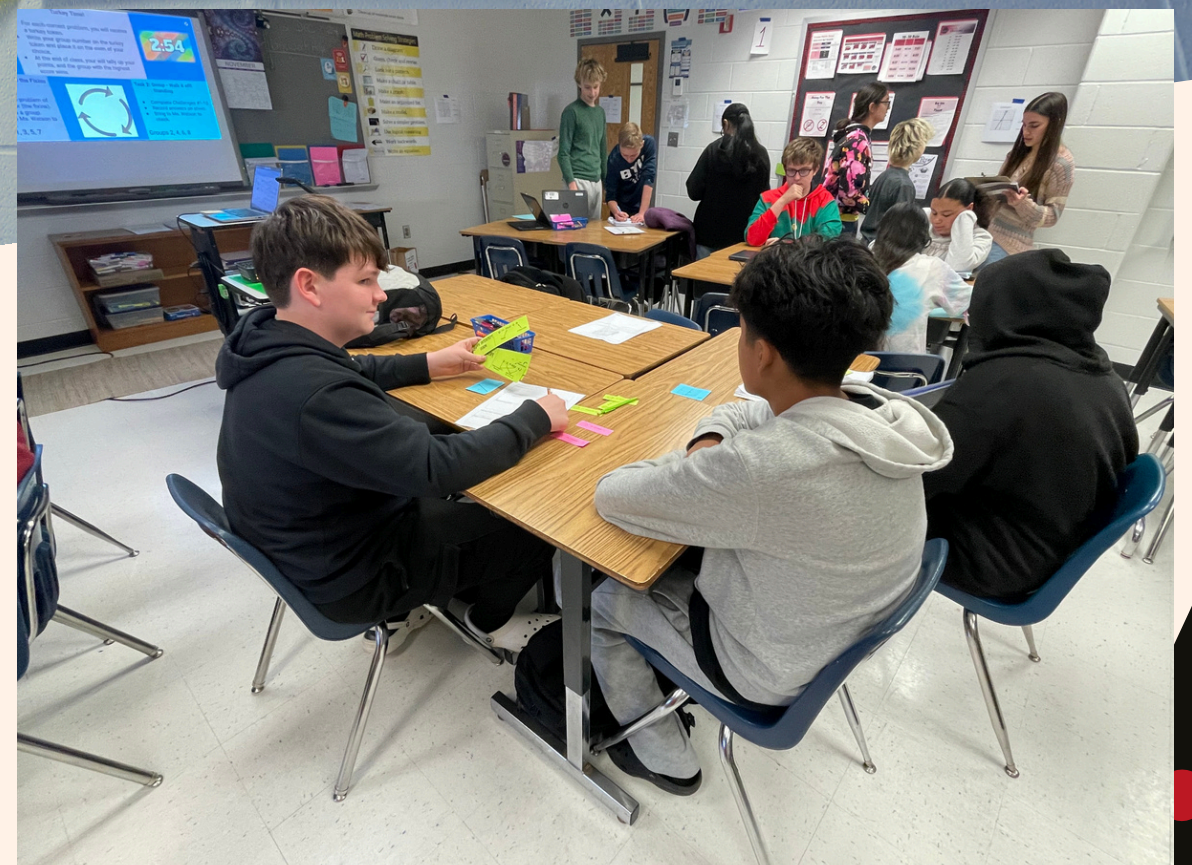
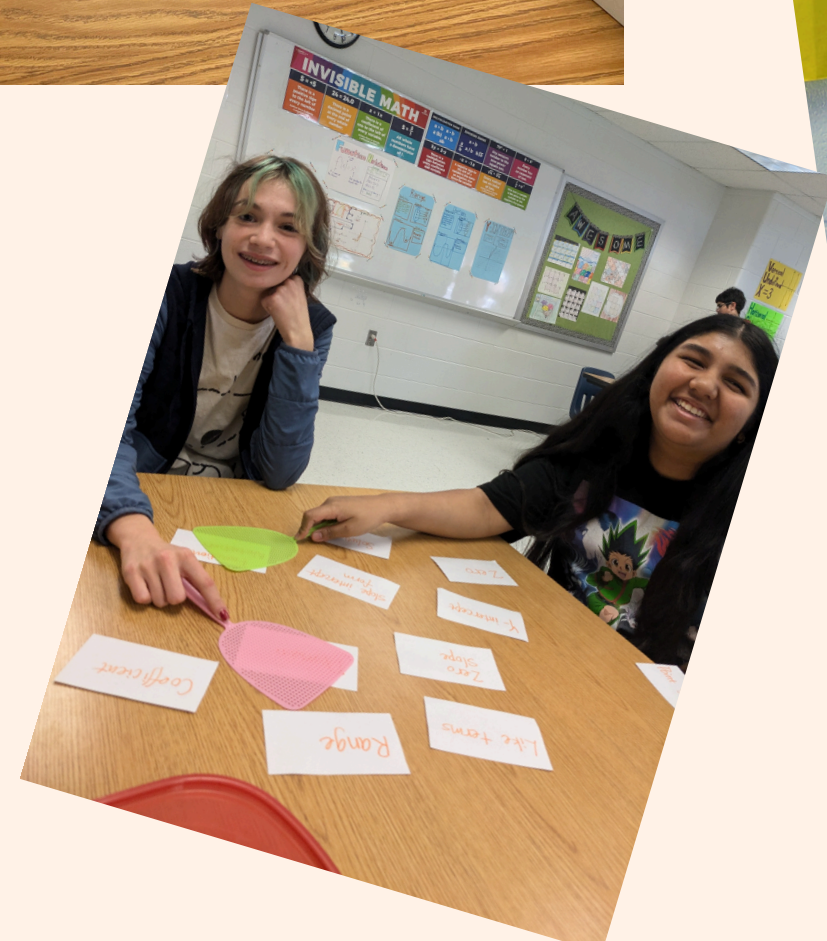
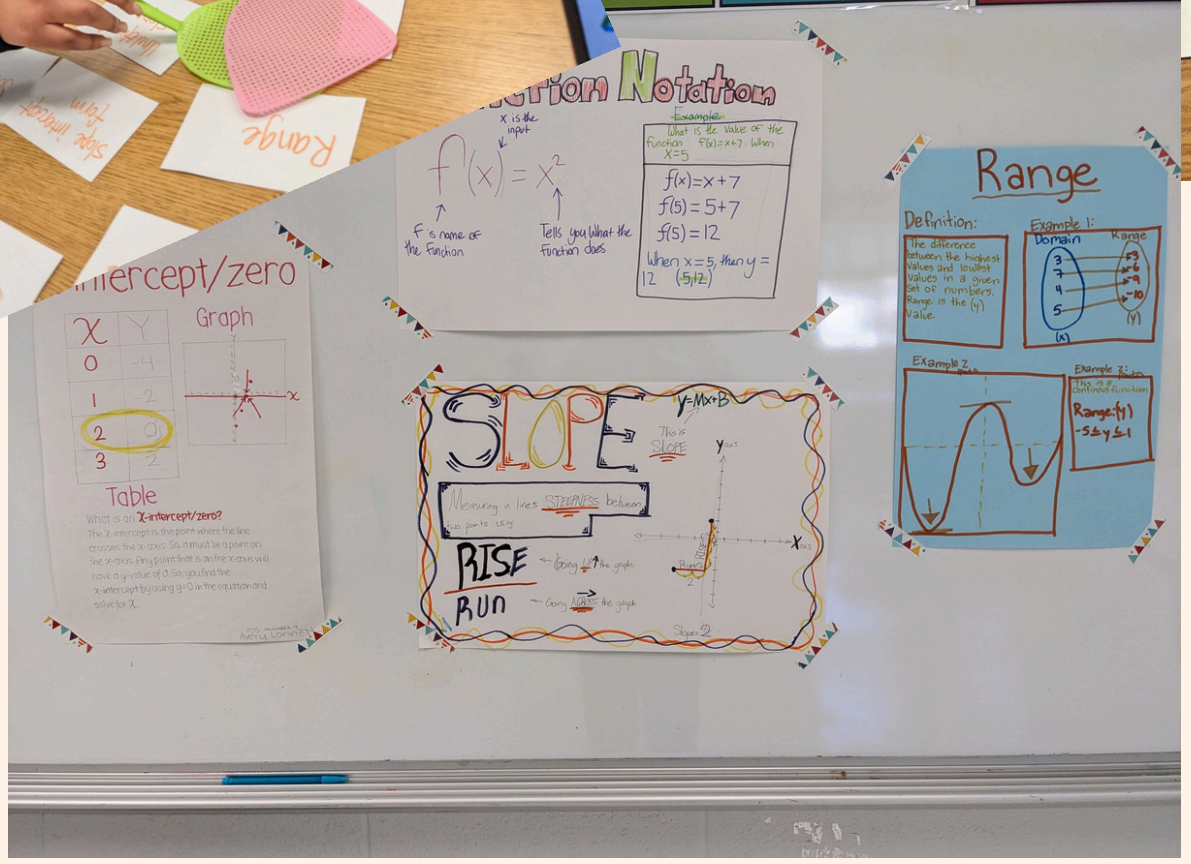
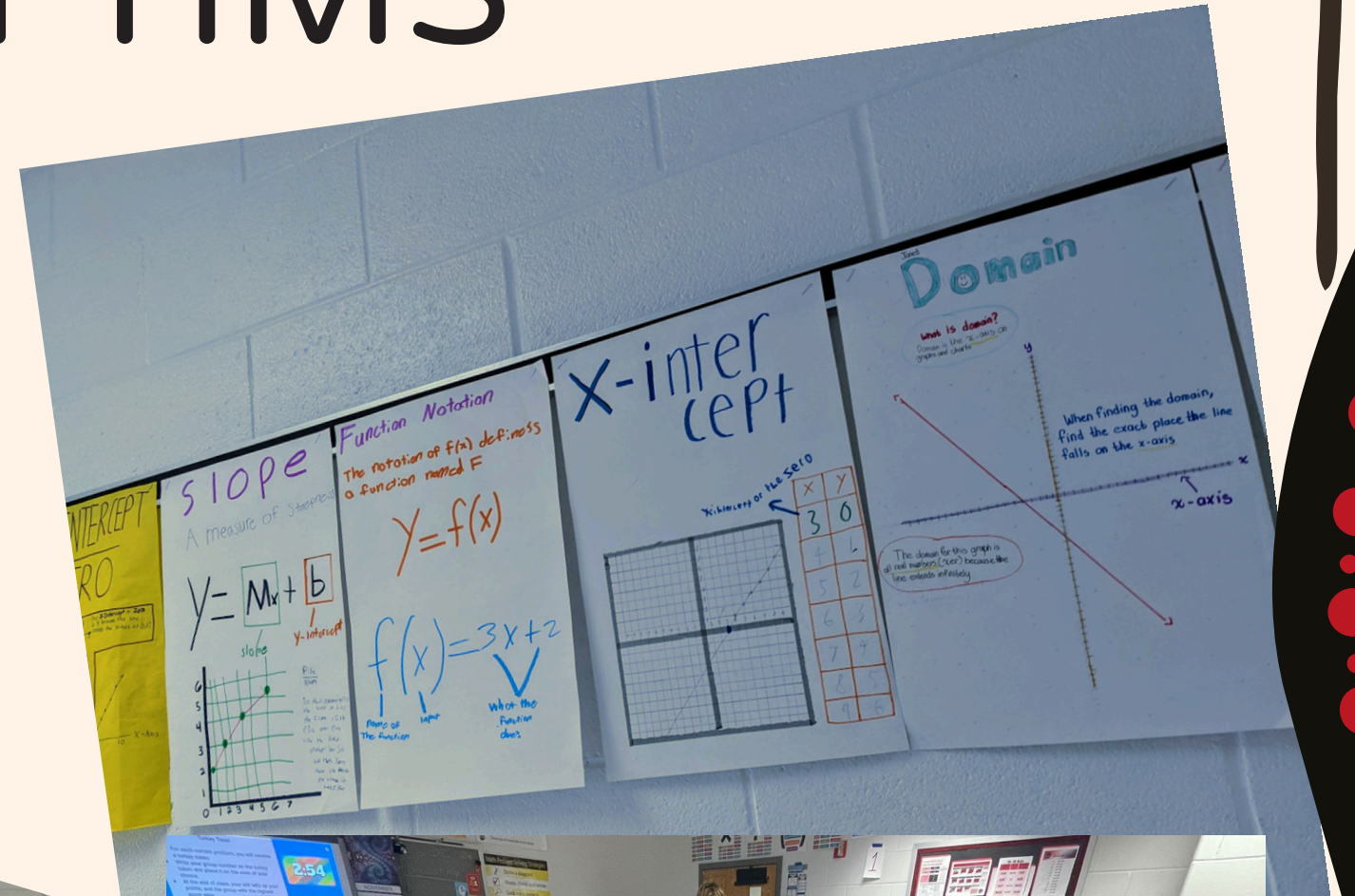
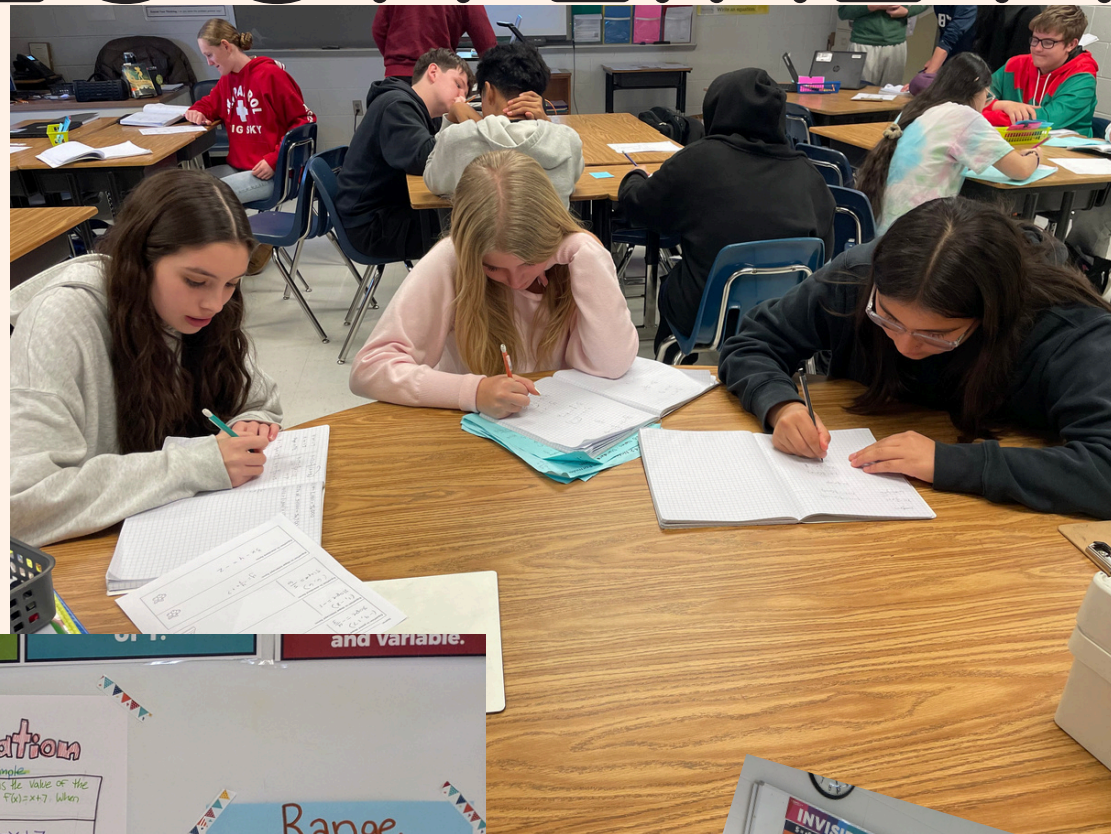
- Show a strong interest in math and desire to be challenged
- Score a 425 or higher on their 6th grade math SOL
- Are self-motivated and willing to seek support when needed.

# MATH 7 AND MATH 7 HONORS

Key Takeaway -

Whether your student takes Mathematics 7 or Mathematics 7 Honors they both have the option to take Algebra 1 or Algebra 1 Honors in Grade 8.

# WHAT DOES A MATH CLASSROOM LOOK LIKE AT HMS

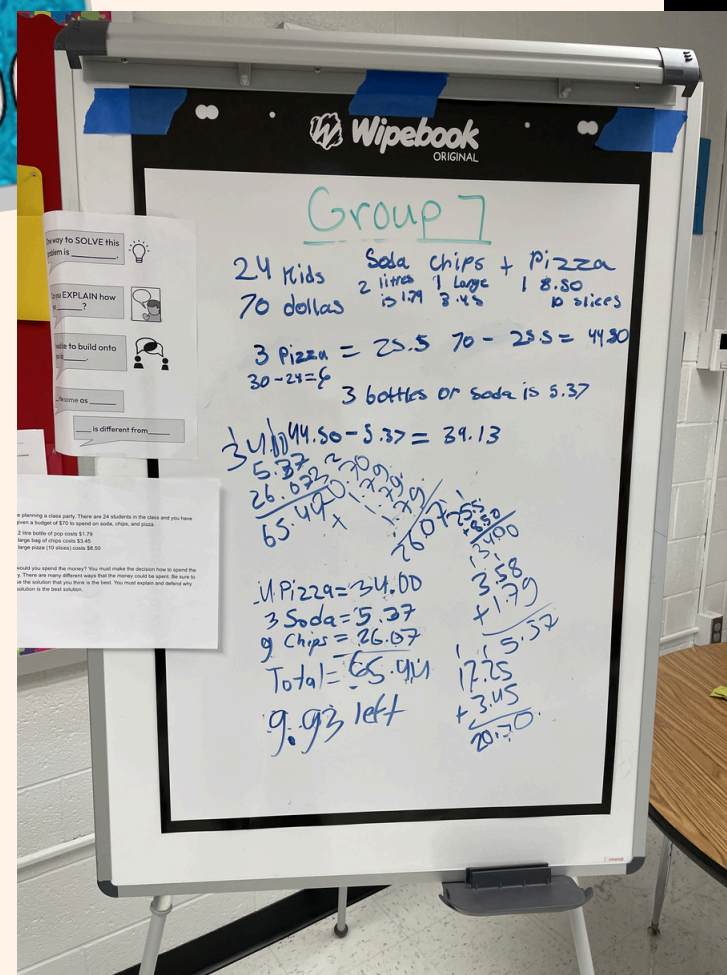


# WHAT DOES A MATH CLASSROOM LOOK LIKE AT HMS

5th Period	Independent Evaluating with DESMOS	IXL See codes on chart paper	Teacher 1 Combine Like Terms	Teacher 2 Order of Operations
Rotation 1	1	2	3	4
Rotation 2	4	1	2	3
Rotation 3	3	4	1	2
Rotation 4	2	3	4	1

Group 1	Group 2	Group 3	Group 4
Allison	Angle	Alexandra	Angelina
Derick	Candice	Juan	Dominick
Kenia	Cristopher	Lindsey	Ella
Matthew	Justin	Mayeree	Hayley
Sophia			Loza



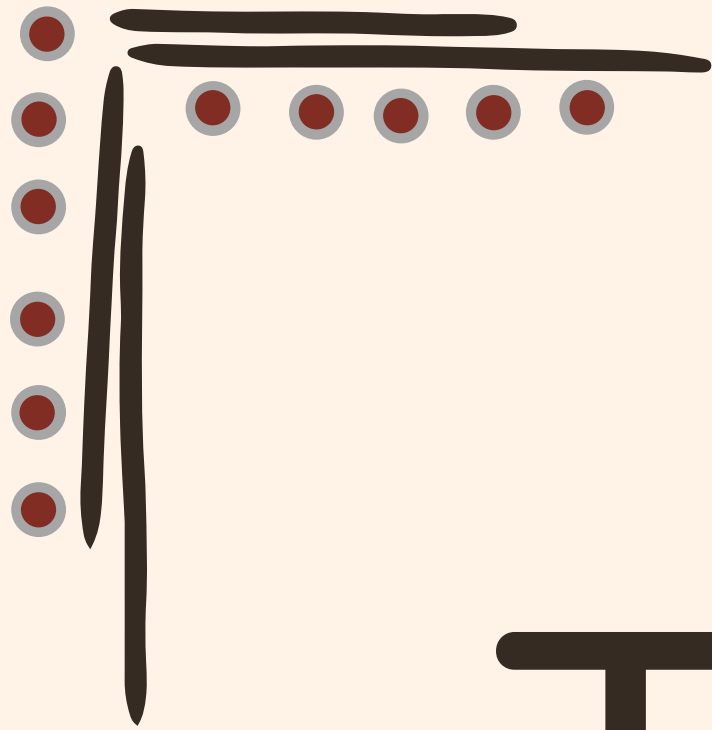
# MATH SUPPORTS

- Small group instruction during math class
- HMS offers math learning seminars during the school day for identified students who may need additional support
- After school academic support sessions

# WHICH MATH CLASS IS BEST FOR MY CHILD?

Consider the following:

- Open enrollment/Data Informed decisions
- Recommendation of teachers/counselors
- A discussion with child and teacher(s)



Thank You

