LJMS Grade 7 Math Curriculum Night 2025

Grade 7 Mathematics Course Options

Mathematics 7

7th grade standards

Mathematics 7 Honors

Pre-Algebra standards + extensions

(Open access)

Algebra I Honors criteria:

- Advanced Math in 6th grade,
- 500+ on 7th grade SOL, and
- 91st percentile on Iowa Algebra Aptitude Test

(Algebra I is a high school credit course.)

Grade 7 Mathematics

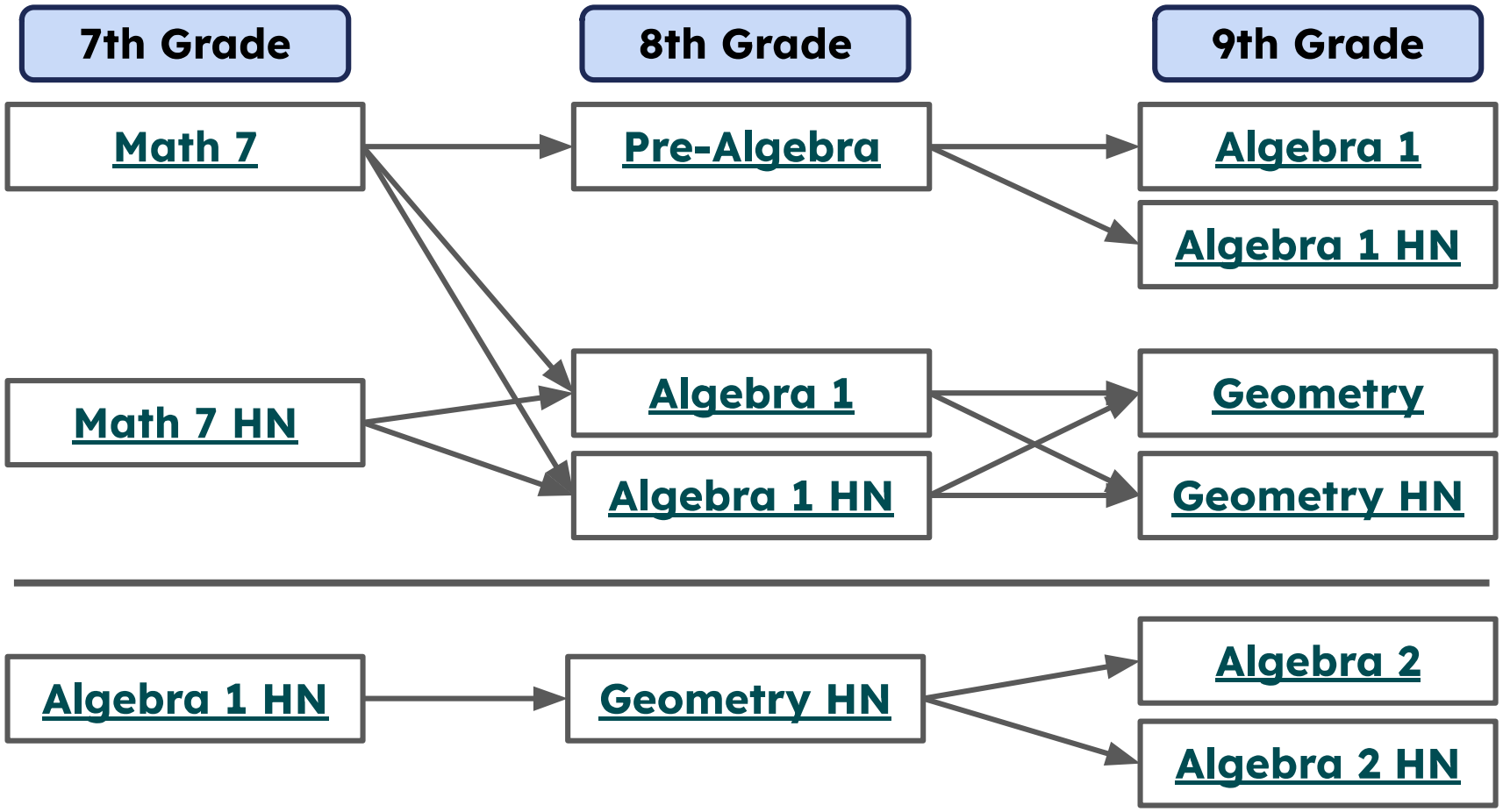
- **Math 7 - A curriculum which considers the foundations of Algebra with an emphasis on rational numbers and their operations. Students in Math 7 take the Math 7 SOL.**

- **Math 7 Honors - A more rigorous approach to a our grade 8 pre-algebra curriculum with an emphasis on problem solving and incorporates extensions above and beyond the standard 8th grade curriculum. This course prepares students for Algebra 1 or Algebra 1 Honors in grade 8. Students in Math 7 Honors take the Pre-Algebra SOL.**

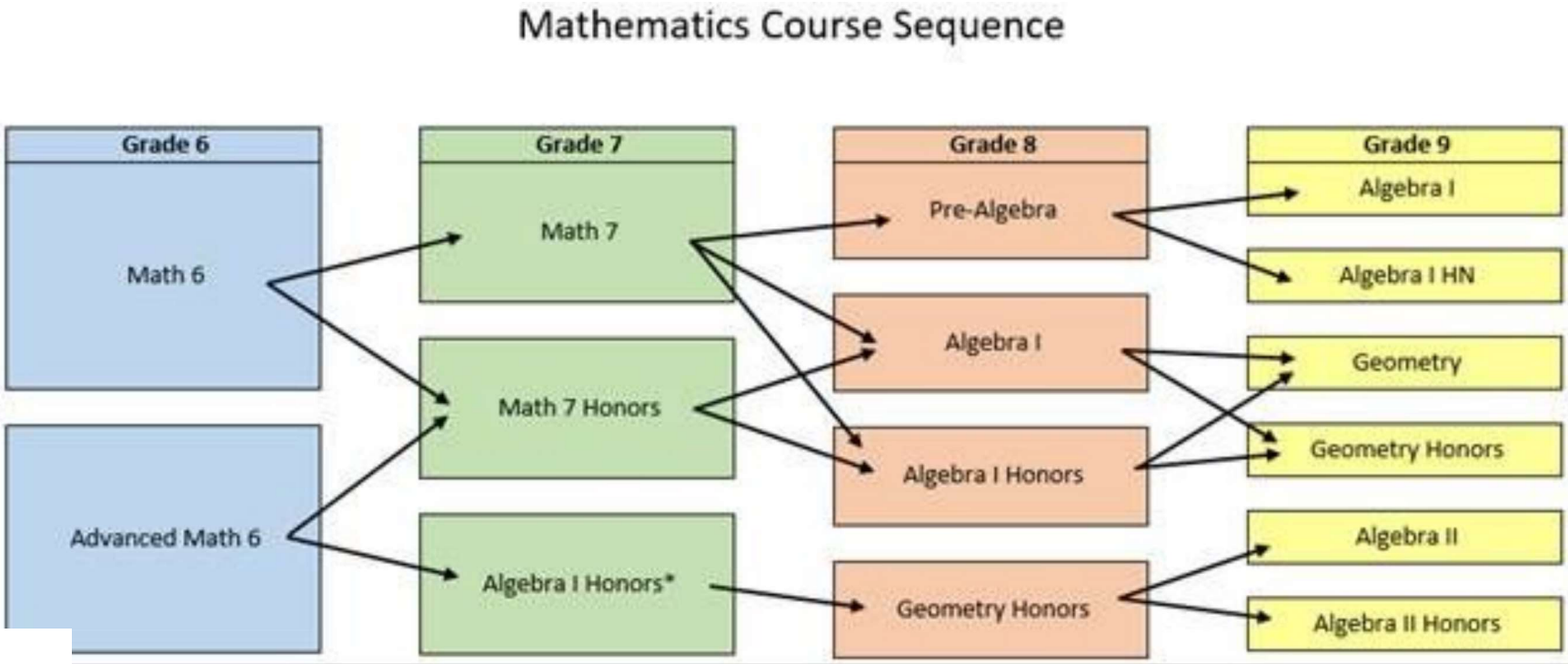
- **Algebra I Honors - A fast-paced approach to Algebra I, a high school credit course, which includes many extensions to the Algebra I SOLs. Students must qualify for this course by meeting 3 criteria.**

*Further sequence

FCPS Math Course Pathways



Current Math Course Sequence



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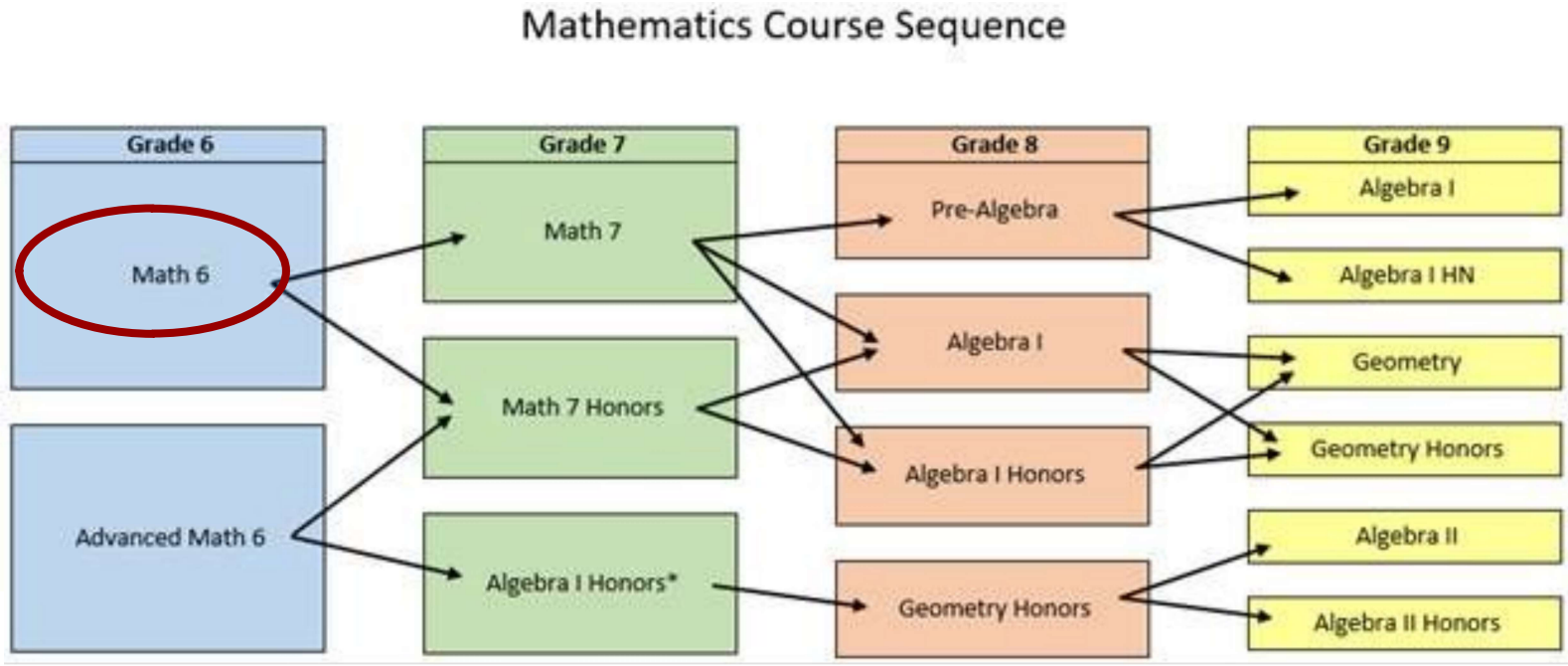
Current Math 6 Students
Move to Math 7 or Math 7 Honors?



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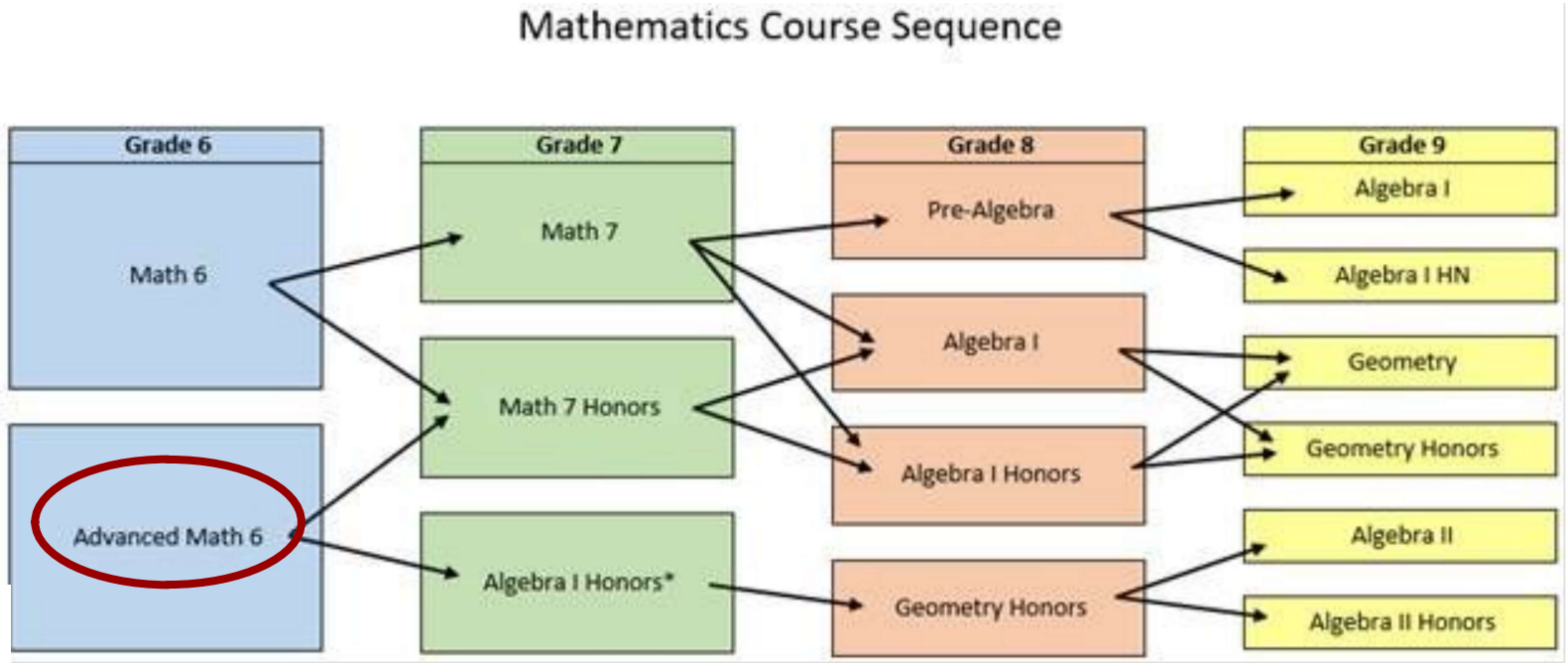
Current Advanced Math 6 Students: Move to Math 7 Honors or Algebra 1 Honors?



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7th grade Math Information

Math 7	Math 7 HN	Algebra I HN
• On Grade Level • Prepares students for Pre-Algebra or Algebra I • Takes Math 7 SOL	• Pre-Algebra (aka Pre-Algebra or Math 8) standards + extensions • Prepares students for Algebra I or Algebra I Honors • Takes Pre-Algebra SOL (8th grade math)	Criteria include: ● advanced math completed in 6th grade ● Score 91% on the IAAT, ● Score Passed Advanced on the Math 7 SOL **Is a high school credit course* ***Students take Geometry Honors as 8th graders* ****Students Take Algebra SOL*

Students must meet all of these criteria to take Algebra I HN in grade 7

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Algebra 1 Honors Criteria (Grade 7)

- 91st percentile or higher on the IAAT
- Pass Advanced on the Math 7 SOL (500 +)
- Completion of Advanced Math 6
- All students are placed in Math 7 Honors until all scores and final marks are received
- Placement decisions occur over the summer – Parents notified in Mid-July if their child will be placed in Algebra 1 Honors.

Why students should consider taking Math 7 HN?

- ALL current 6th graders will take Alg 1 by 8th grade
- Math 7 HN is pre-algebra, the best preparation for entering Algebra as an 8th grader
- Students who have struggled in Math 6 will receive support to help them experience successful outcomes in Math 7 HN
- Alg 1 Honors in 8th grade is needed to apply to TJ so students interested in applying should take at least Math 7 Honors in 7th grade

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Why take Math 7 HN and Alg 1 Honors?

- Content is more closely aligned with the Algebra content
- Opportunity to take an honors course which is not a high school credit course
- Supports are in place to support students moving from Math 6 to Math 7 Honors including:
  - Advisory support class
  - Algebra Readiness Class

- Earlier participation in Algebra allows students additional time to take higher level math courses
- Increases access to college and career opportunities, particularly in STEM fields
- May allow for more academy classes opportunities in high school

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Algebra Readiness Skills included in Math 7 Honors (not in Math 7):

- Solving Multi-step Equations
- Solving Multi-step Inequalities
- Graphing Linear Equations
- Surface area and volume
- Application of Equations in Geometry

Comparison of 3 Levels

Math 7	Math 7 Honors	Algebra Honors
$\frac{h}{2}+5=27$ Answer has one solution	$2(4x-3)-8=4+2x$ Answer has one solution	$3(x+1)+1+2x=2(2x+2)+x$ *Answer has **infinite solutions***
$(8-7)^2\cdot 3+8\div(-2)$ Students learn Order of Operations in Math 7 that include negative numbers	$\frac{-3[2^2+(3\cdot 6)}{\sqrt{25}+(12\div -2)}$ Order of Operations with negative numbers is **assumed prior knowledge**, students start incorporating square roots, cubes, absolute value, and nesting	$\frac{\sqrt[3]{-216}\cdot[10+(\sqrt{16}-22)]^3}{8^2}$ *Math 7 and PreAlgebra is **assumed prior knowledge**; students begin incorporating positive and negative cube roots