

**Kilmer Middle School**  
**Grade 7**  
**Mathematics Curriculum**

# Grade 7 Mathematics Course Options

Mathematics 7  
7<sup>th</sup> grade standards

Mathematics 7 Honors

Pre-Algebra (Math 8 standards) + extensions  
(Open enrollment)

Algebra I Honors  
criteria:

- Advanced Math in 6<sup>th</sup> grade,
- 500+ on 7<sup>th</sup> 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 and emphasizes the concept of and operations with rational numbers. The content covers the Math 7 SOLs.
- **Math 7 Honors** - A more rigorous approach to a pre-algebra curriculum with an emphasis on problem solving. It is correlated to the 8th grade Math SOLs, but contains extensions and enrichment opportunities. Prepares students for Algebra I Honors or Algebra 1 in grade 8. **(Open Enrollment)**
- **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 take Algebra 1 Honors by 8th to apply for TJHSST.*



# VDOE 2023 Mathematics Standards

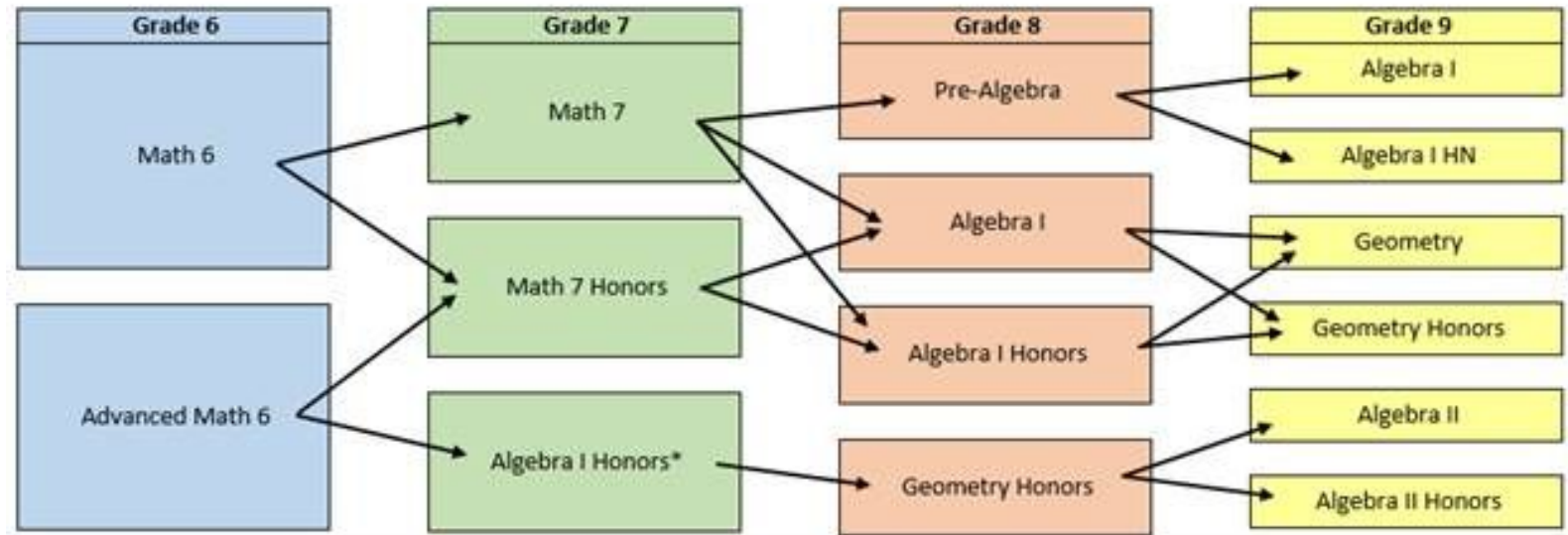
- Approved August 31, 2023
- Fully implemented in  
2024-2025 School Year



# Math Course Sequences

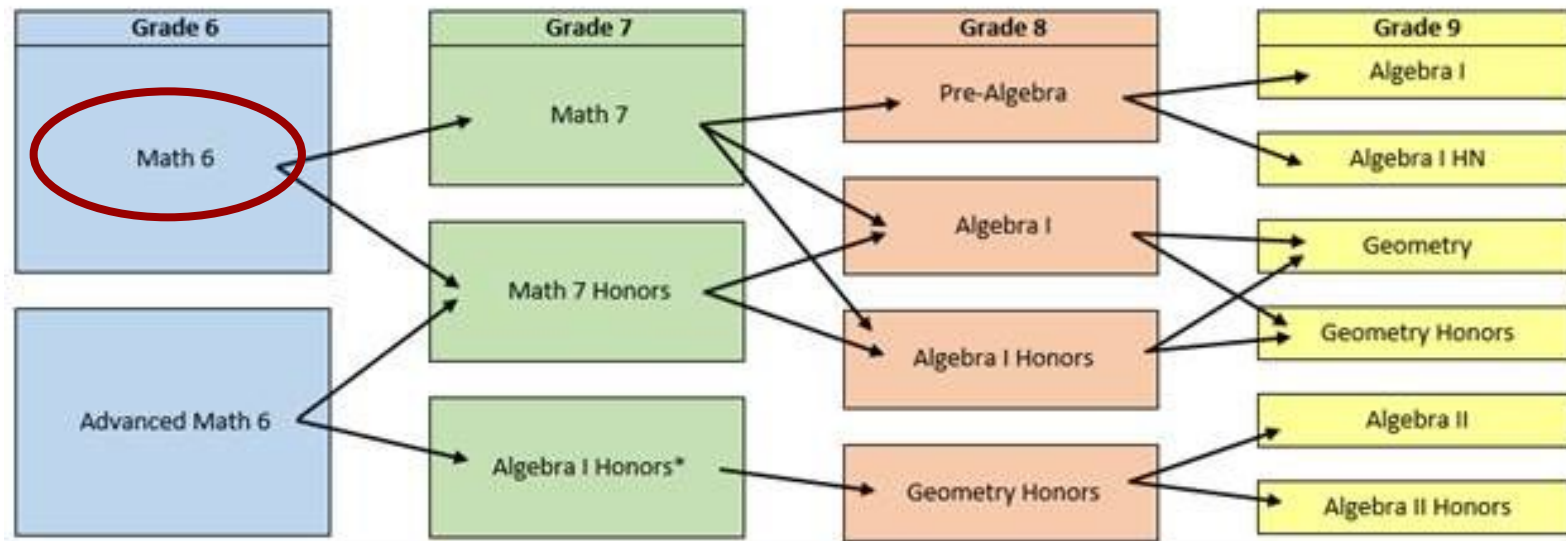
# Math Course Sequence

## Mathematics Course Sequence



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

## Mathematics Course Sequence



*Students must take Algebra 1 in 8th grade to complete the IB sequence in high school.*

# Profile of a Math 7 Honors Student

- ▶ Student who is performing well in Math 6 and has passed previous Math SOLs
- ▶ 6th grade math teacher provides feedback indicating that the student has developed skills needed for Math 7 Honors
- ▶ Student is motivated and willing to work hard

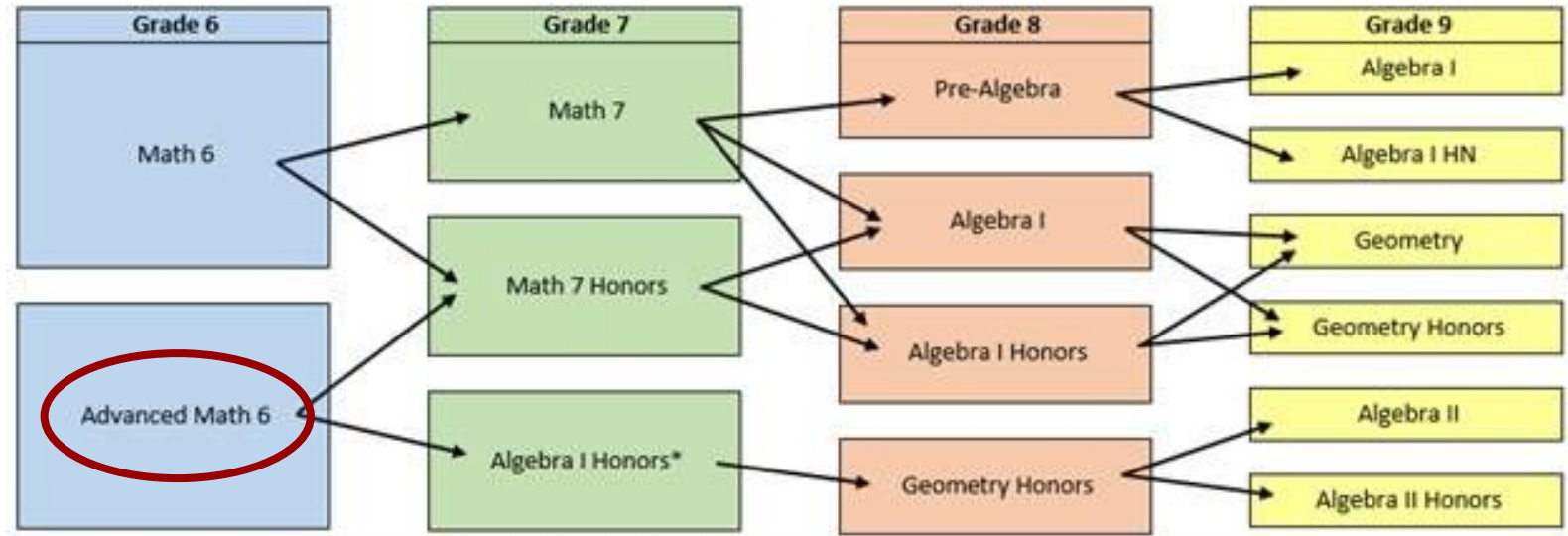


# Current Advanced Math 6

## Students:

Move to Math 7 Honors or Algebra 1 Honors?

### Mathematics Course Sequence



*Students must take Algebra 1 in 8th grade to complete the IB sequence in high school.*

# 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
- ▶ Parents notified by Mid-July if their child will be placed in Algebra 1 Honors.



# Pathway to Algebra

# Algebra Readiness Skills Included in Math 7 Honors (not in Math 7):

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>▶ Combining Like Terms</li><li>▶ The Distributive Property</li><li>▶ Solving Multi-step Equations</li><li>▶ Solving Multi-step Inequalities</li><li>▶ Graphing Linear Equations</li></ul> | <ul style="list-style-type: none"><li>▶ Literal Equations</li><li>▶ Simplifying Radicals</li><li>▶ Laws of Exponents</li><li>▶ Line of Best Fit</li><li>▶ <math>x</math>- and <math>y</math>-intercepts</li></ul> |
|---|---|

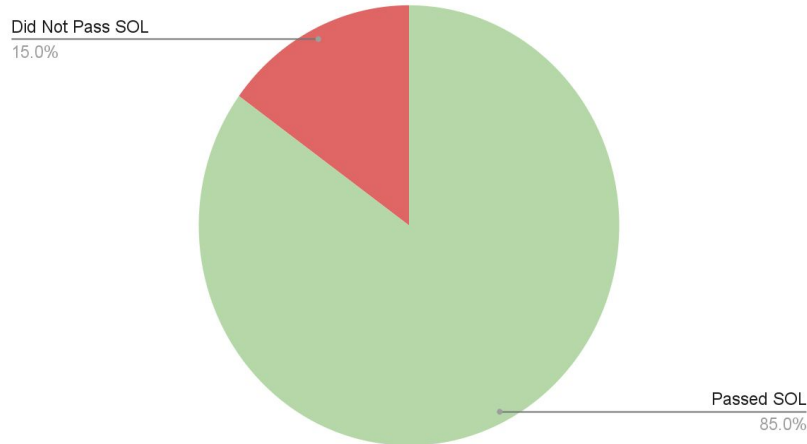
# Why Take Math 7 Honors?

- ▶ Our belief at Kilmer is that Math 7 Honors supports student success in Algebra in 8th grade
- ▶ 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:
  - Learning Seminar
  - Summer Bridge program/materials

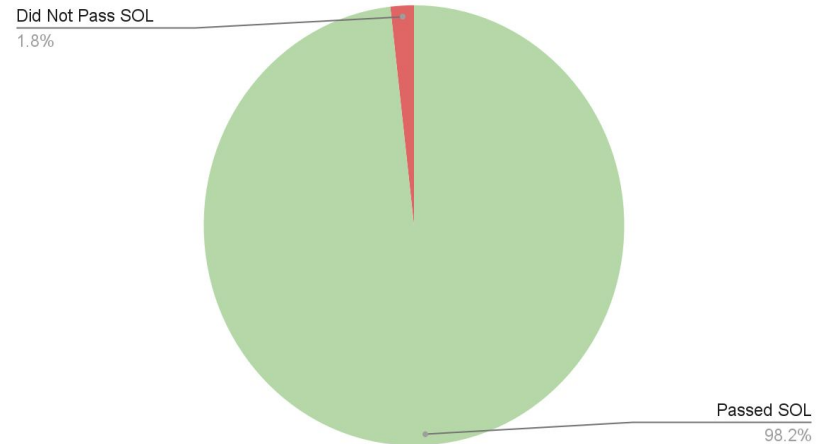
# Why Take Math 7 Honors?

- We believe Math 7 Honors best prepares students for success in Algebra

2024 Algebra SOL - Math 7 to Algebra



2024 Algebra SOL - Math 7 HN to Algebra



# Potential Support & Intervention Opportunities

- **Learning Seminar:** Opportunity for students to have additional time to work with math teacher.
- **7th Grade Algebra Readiness:** Course designed to prepare 7<sup>th</sup> grade students for Algebra 1. The course focuses on fundamental skills and pre-Algebra topics.
- **8th Grade Algebra Readiness:** Algebra support class offered to 8th grade Algebra students.

# Math Point of Contacts

**Melissa Smith** , Assistant Principal

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# Thank you for joining us!



Please complete  
the Google Form  
by scanning the  
QR code or by  
visiting  
[https://tinyurl.com/  
kilmermath](https://tinyurl.com/kilmermath)

# Algebra in Grade 8

- Algebra 1 in 8th grade is needed to complete IB sequence
- Algebra 1 Honors in 8th grade is needed to apply to TJ

# 8th Grade Algebra Data

- **Math 7 to Algebra SOL** (2023) pass rate:
  - **85%** (85 of 100)
- **Math 7 HN to Algebra SOL** (2023) pass rate:
  - **98.2%** (217 of 221)