

Kilmer Middle School
Grade 8
Mathematics Curriculum

Grade 8 Mathematics Course Options

Pre-Algebra

- 8th grade standards

Algebra 1

- High school credit course

Algebra 1 Honors

- High school credit course

Geometry Honors

- For students who completed Algebra 1 in grade 7
- High school credit course

Grade 8 Mathematics

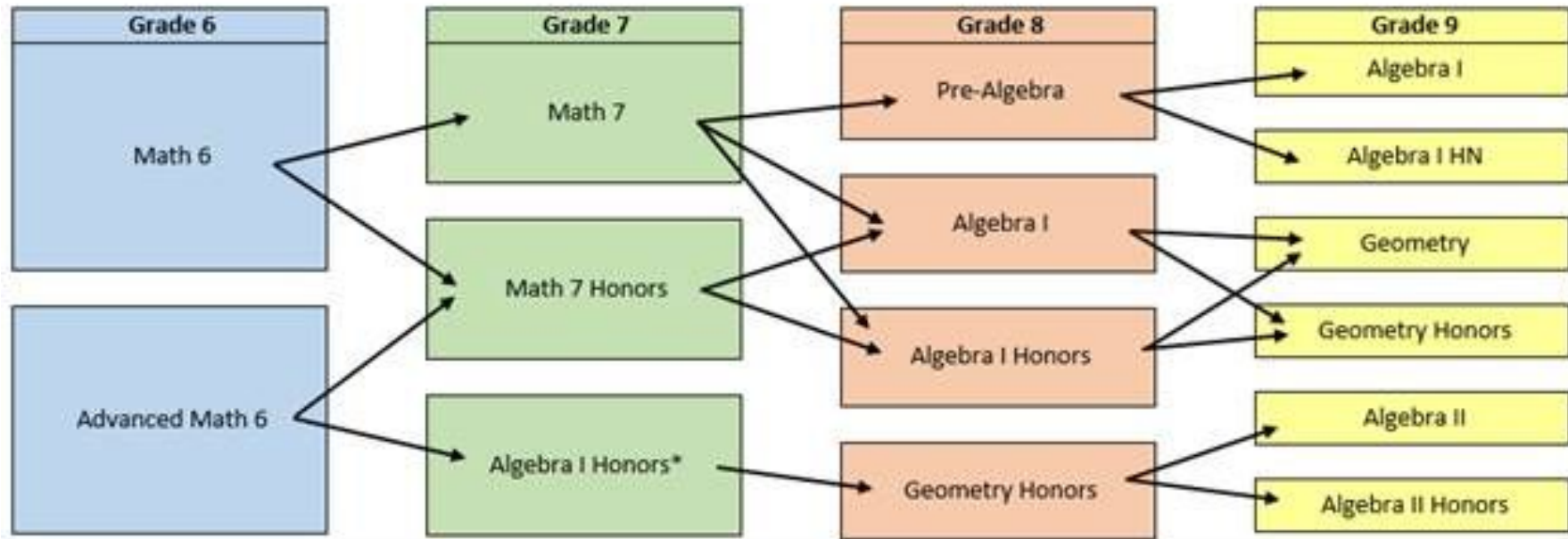
- **Pre-Algebra** - The course covers the Math 8 SOLs. The content prepares students for Algebra in Grade 9. Students take the Math 8 SOL.
- **Algebra 1** - Students will use algebra as a tool for representing and solving a variety of practical problems. Tables and graphs will be used to interpret algebraic expressions, equations, and inequalities and to analyze behaviors of functions.
- **Algebra I Honors** - A fast-paced approach to Algebra I, which includes many extensions to the Algebra I SOLs.
- **Geometry Honors** - This course emphasizes two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve real-life problems.



VDOE 2023 Mathematics Standards

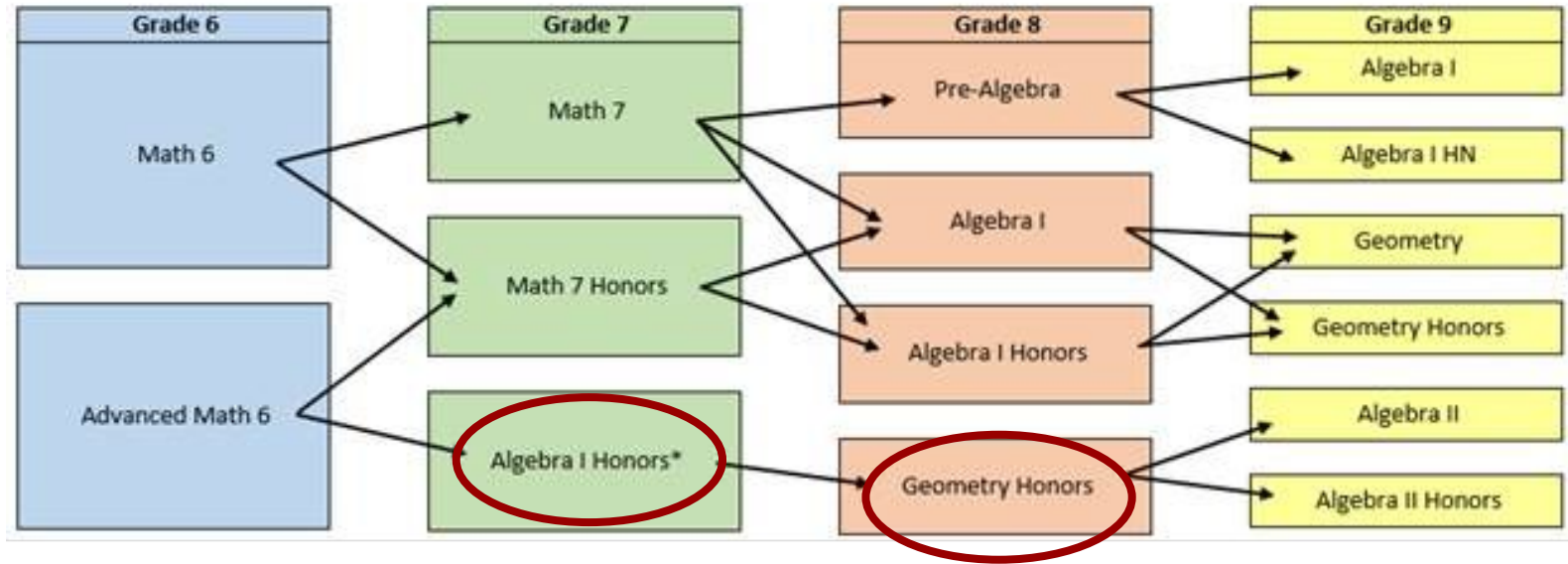
- Approved August 31, 2023
- Fully implemented in
2024-2025 School Year

Math Course Sequence



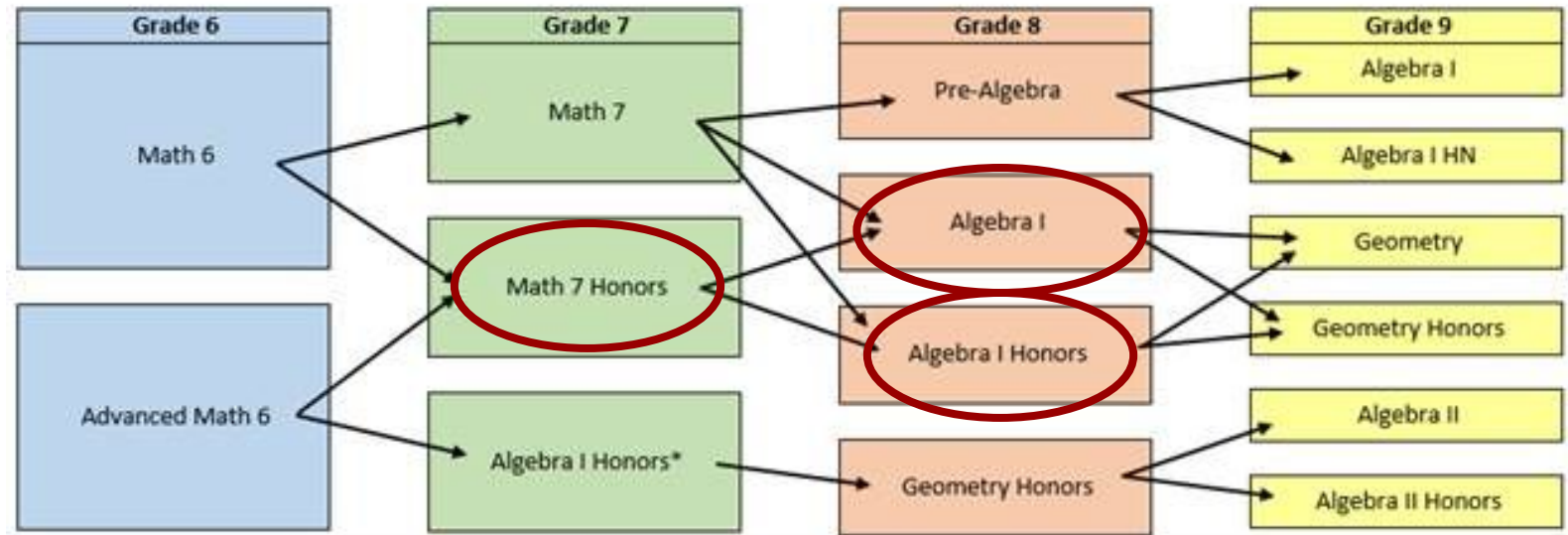
Current Algebra 1 Honors Students: Move to Geometry Honors

Mathematics Course Sequence



Current Math 7 HN Students: Choose between Algebra 1 and Algebra 1 HN

Mathematics Course Sequence



Who should consider taking Algebra Honors?

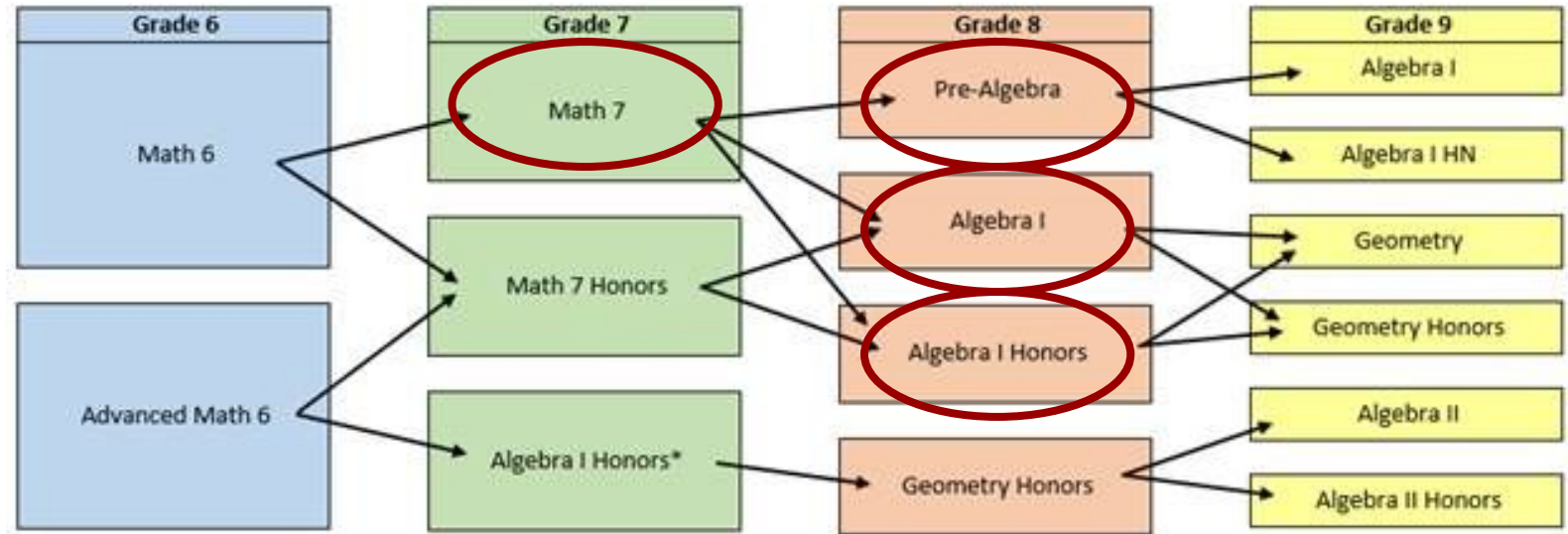
- ▶ Student is motivated and willing to work hard
- ▶ Student is currently performing well in Math 7 HN and has high passed previous SOLs
- ▶ 7th grade math teacher provides feedback indicating that the student has developed skills needed for Algebra Honors
- ▶ While Algebra Honors is open enrollment, families must make this decision thoughtfully

Why take Algebra Honors?

- ▶ Algebra 1 Honors in 8th grade is needed to apply to TJHSST
- ▶ Boost to GPA
- ▶ Challenge
- ▶ Enter high school math honors track

Current Math 7 Students: Choose between Pre-Algebra and Algebra 1

Mathematics Course Sequence



Why take Algebra?

- Algebra 1 in 8th grade is needed to complete IB sequence
- Allows students to access advanced level math courses in high school which can earn college credit
- Advanced level math courses are often prerequisites for postsecondary STEM majors
- Allows students to challenge themselves mathematically
- Early start on earning high school credits

Opportunities for Support

- Algebra Prep: Summer program (and materials) intended for students moving from Math 7 to Algebra
- 8th grade Algebra Readiness:
Algebra support class offered to 8th grade Algebra students

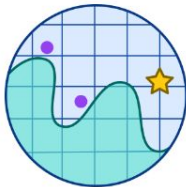
Resource: Desmos.com

Let's learn together.

We're on a mission to help every student learn math and love learning math.

Graphing Calculator

Using Desmos Classroom?

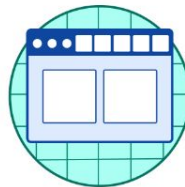


Students

Join your classmates!

Join

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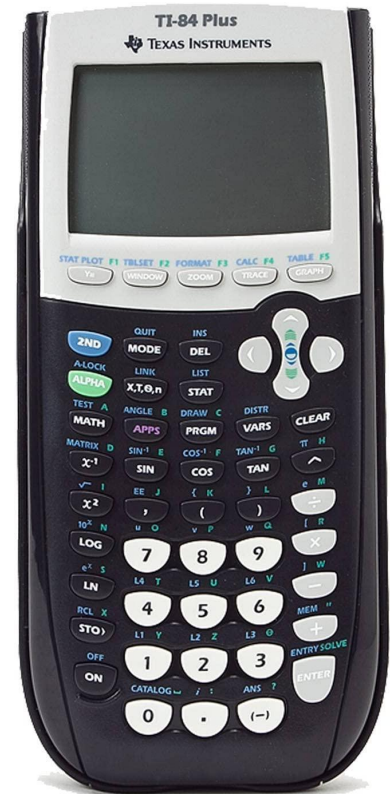
Teachers

Interactive and creative activities for your math class.

Browse Activities

Resource: TI-84+ calculator

- All Algebra classrooms have a class set
- Used in most high school math courses, SAT, AP tests
- No longer allowed on SOL



Resource: MathSpace

- Online techbook
- Access through Schoology and Clever (Google login)
- Practice problems with feedback



Mathspace

DISTRICT

Resource: Delta Math



- Unlimited practice problems
- Targeted practice by benchmark
- Web based with Google login

High School

- Algebra and Geometry are high school credit classes which will appear on the student's high school transcript
- Middle school students can expunge courses taken for high school credit
- If a course is expunged, the verified credit from the SOL is also expunged
- 3 math classes are required for Standard Diploma
- 4 math classes are required for Advanced Diploma

Contact Information

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