Mathematics
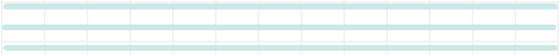
Course Options 2024 - 2025

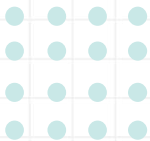Click here for an audio clip with an overview!

7th Grade

Click on the link above to take you to the math course offerings for rising 7th grade students!

8th Grade

Click on the link above to take you to the math course offerings for rising 8th grade students!

7th Grade Math Courses

Math 7

Math 7
Honors

Algebra 1
Honors

Click here if your child is currently enrolled in Math 6.

Click here if your child is currently enrolled in Advanced Math 6.

Course Options for Students **Currently Enrolled In Math 6**

Please review the 2 options that your 7th grade child has for middle school math. Click on the title of the course to learn more.

OPTION #1	
7th Grade Course	**8th Grade Course**
Math 7 (Grade 7 SOL)	Pre-Algebra (Grade 8 SOL) Or **Alg. 1/Alg. 1 Honors (Algebra SOL)

OPTION #2	
7th Grade Course	**8th Grade Course**
Math 7 Honors (Grade 8 SOL)	**Alg. 1 or Alg. 1 Honors (Algebra SOL)

**Algebra 1 is an End of Year High School Course and requires a passing grade and passing SOL score to graduate high school with a Standard Diploma.

Course Options for Students **Currently Enrolled In Advanced Math 6**

Please review the 2 options that your 7th grade child has for middle school math. Click on the title of the course to learn more.

OPTION #1	
7th Grade Course	**8th Grade Course**
Math 7 Honors (Grade 8 SOL)	**Alg. 1 or Alg. 1 Honors (Algebra SOL)

OPTION #2	
7th Grade Course	**8th Grade Course**
**Algebra 1 Honors (Algebra SOL) *Students must qualify*	**Geometry 1 Honors (Geometry SOL)

**Algebra 1 and Geometry are End-of-Year High School Courses and require a passing grade and passing SOL score to graduate high school with a Standard Diploma.

Math 7 Information

- ❏ Grade-level math course.
- ❏ 10 units of study across various mathematical topics.
- ❏ Builds on the concepts of rational numbers, ratios, proportional reasoning from 6th grade math.
- ❏ Emphasis on problem-solving skills and strategies.
- ❏ Introduces the foundation necessary for algebra.

Math 7 is an appropriate course for students who will benefit from additional exposure and practice with foundational math skills.

Math 7 students can take Pre-Algebra (8th grade math) or Algebra 1/Algebra 1 Honors in 8th grade.

Math 7 Honors Information

- ❏ Above grade-level math course (Math 8 SOL)
- ❏ Builds on the foundational skills to prepare students for Algebra.
- ❏ 10 units of study including extensions.
- ❏ Emphasis on problem-solving skills and strategies.
- ❏ Students will skip over Math 7 if they were enrolled in regular Math 6 last year (Math 7 concepts will be reviewed).

Math 7 Honors is an appropriate course for students with average to strong foundational math skills who are willing to extend their math knowledge.

Math 7 Honors students who successfully complete the course in 7th grade will take Algebra or Algebra Honors in 8th grade.

Alg. 1 Honors Information

VDOE Algebra Description

- ❏ Offered to eligible students only.
- ❏ High-school credit 9th grade math course.
- ❏ Grade will appear on students' high school transcripts.
- ❏ 10 units of study of algebraic concepts.
- ❏ Mastery of Algebra is critical to student success in future high school math courses.

Algebra 1 Honors in 7th grade is an appropriate course for students who are eligible and who are willing to enroll in a high-school credit course.

Algebra 1 Honors students in 7th grade will take Geometry Honors in 8th grade.

8th Grade Math Courses

Pre-Algebra

Algebra 1

Algebra 1 Honors

Geometry Honors

Click here if your child is currently enrolled in Math 7.

Click here if your child is currently enrolled in Math 7 Honors.

Algebra 1 vs. Algebra 1 Honors

Course Options for Students **Currently Enrolled In Math 7**

Please review the 2 options that your 7th grade child has for 8th grade math. Click on the title of the course to learn more.

OPTION #1	
8th Grade Course	**9th Grade Course**
Pre-Algebra (Grade 8 SOL)	**Alg. 1/Alg. 1 Honors (Algebra SOL)

OPTION #2	
8th Grade Course	**9th Grade Course**
**Algebra 1 or Algebra 1 Honors (Algebra SOL)	**Geometry or Geometry Honors (Geometry SOL)

Algebra 1 is an End of Year High School Course and requires a passing grade and passing SOL score to graduate high school with a Standard Diploma.

Course Options for Students **Currently Enrolled In Math 7 Honors**

Please review the 2 options that your 7th grade child has for 8th grade math.. Click on the title of the course to learn more.

OPTION #1	
8th Grade Course	**9th Grade Course**
**Algebra 1 (Algebra SOL)	**Geometry or Geometry Honors (Geometry SOL)

OPTION #2	
8th Grade Course	**9th Grade Course**
**Algebra 1 Honors (Algebra SOL)	**Geometry 1 Honors (Geometry SOL)

**Algebra 1 and Geometry are End-of-Year High School Courses and require a passing grade and passing SOL score to graduate high school with a Standard Diploma.

Pre-Algebra Information

- ❏ Grade-level math course (there is no "Pre-Algebra Honors" course).
- ❏ 10 units of study across various mathematical topics.
- ❏ Builds on the concepts of number sense, proportional reasoning and Algebraic thinking from 7th grade math.
- ❏ Emphasis on problem-solving skills and strategies.
- ❏ Builds on the foundation necessary for algebra.

Pre-Algebra is an appropriate course for students who will benefit from additional exposure and practice with skills necessary for the foundation to take Algebra successfully in high school.

Pre-Algebra students in 8th grade will take Algebra 1 in 9th grade.

Algebra 1 Information

VDOE Algebra Description

- ❏ High-school credit 9th grade math course.
- ❏ Grade will appear on students' high school transcripts.
- ❏ 12 units of study of algebraic concepts.
- ❏ Students will skip over Pre-Algebra.
- ❏ Mastery of Algebra is critical to student success in future high school math courses.

Algebra 1 in 8th grade is an appropriate course for students with average to strong foundational math skills who are willing to enroll in a high-school credit course.

Algebra 1 students in 8th grade will take Geometry or Geometry Honors in 9th grade.

Alg. 1 Honors Information

- ❏ High-school credit 9th grade math course.
- ❏ Grade will appear on students' high school transcripts.
- ❏ 10 units of study of algebraic concepts.
- ❏ Students will cover the Algebra curriculum as well as extension topics.
- ❏ Mastery of Algebra is critical to student success in future high school math courses.

Algebra 1 Honors in 8th grade is an appropriate course for students with strong foundational math skills, who are willing to enroll in a high-school credit course, and who are curious to learn more about math and the way it works.

Algebra 1 Honors students in 8th grade will take Geometry or Geometry Honors in 9th grade.

How is Algebra Honors Different?

- Students will focus on algebraic concepts and **Algebra 2 extension** topics.
- Students should be able to keep up with a **faster** pace of instruction.
- Students should have the ability to learn and reinforce concepts on their own and be willing to **seek additional** help when necessary.
- Students will be assessed on the **honors extension** concepts on assessments.
- Students should have a desire to complete **5 years** of high school mathematics.
- Students should have solid work habits, organizational skills, and motivation.
- Students need to have a **solid foundation** of Pre-Algebra concepts.

Geometry Honors Information

VDOE Geometry Description

- ❏ Offered to eligible students only.
- ❏ High-school credit 10th grade math course.
- ❏ Grade will appear on students' high school transcripts.
- ❏ 10 units of study.
- ❏ Geometry focuses heavily on logic and reasoning, problem solving, and foundational mathematics for Algebra 2 and Calculus

Geometry in 8th grade is an appropriate course for students who have taken Algebra 1 Honors in 7th grade and successfully completed it.

Geometry Honors students in 8th grade will take Algebra 2 Honors in 9th grade.