Math 7
Virginia 7 SOL Curriculum
Plus FCPS Extensions

Math 8
Recommended for students who found the math 7 pace perfect

Algebra I
Recommended for students excelling in Math 7

Algebra I Honors
Moving from Math 7 to Algebra I Honors is a difficult transition that isn't usually recommended, but highly motivated and skilled students can be successful

Math 7 Honors
Virginia 8 SOL Curriculum
Plus FCPS Extensions, reaching into high school level applications

Math 8
Recommended for students who earn a low C or below in math 7 honors

Algebra I
Recommended for students doing well in the Math 8 Curriculum, but struggling with the extension topics

Algebra I Honors
Recommended for students doing well in Math 7 Honors

Algebra I Honors
* Check with HS Counselor

Geometry I

Geometry I Honors
## 7th Grade Math Courses

### Important Notes on Math 7:
- Students in Fairfax County have a more rigorous curriculum than other 7th grade students in Virginia.
- Math 7 covers the pre-requisites for Algebra, so students who are highly successful will be prepared to take Algebra as 8th graders.
- 7th grade math provides the foundations for success in future Algebra and Geometry courses. Without a strong understanding of the math 7 curriculum, students are at a disadvantage that is often difficult to overcome.

### Important Notes on Math 7 Honors:
- It is expected that students have mastered the pre-requisite concepts from the math 7 curriculum.
- Students in Math 7 Honors will take the 8th grade SOL.
- The basic curriculum is the Math 8 curriculum, but the bulk of the content focuses on extensions, some of which reach into high school and college math.
- Students who are not successful in Math 7 Honors are recommended for Math 8 (not Algebra).
- Students who just “make it” through Math 7 Honors are missing out on the foundations, and this skill deficit compounds as they move to more difficult courses, resulting in students continuing to struggle throughout their high school and college math courses.
  - For example, imagine a 3rd grader learning multiplication. If the student is in a class where it is assumed that he already has mastered the multiplication tables, the teacher will be presenting extensions that will allow students to explore and apply their understanding of multiplication. However, the student who hasn’t learned multiplication tables will be struggling to keep up pace. By the end of the unit, he may have caught on to the twos, threes, fours, fives, and tens, which is enough to pass the test, but he doesn’t know the other multiplication tables. This lack of knowledge will hamper his math ability and number sense, even through math courses in high school. However, if he was in a class that was tailored to his skills, he would be fully confident with the multiplication tables and ready and able to apply them to more rigorous classes in the future.
- Prerequisites for Math 7 Honors
  - Students must be fluent and comfortable performing the following without a calculator:
    - Adding, Subtracting, Multiplying, Dividing with Integers
    - Adding, Subtracting, Multiplying, Dividing with Fractions
    - Adding, Subtracting, Multiplying, Dividing with Decimals
    - Simplifying expressions according to the order of operations
  - Students must have the work ethic to keep up with homework assignments
  - Students must enjoy math and want a challenge in math class

### Important Notes on Algebra I Honors:
- Algebra I Honors is not available for open enrollment. If you feel this extremely advanced course is right for your child, please discuss placement criteria with a counselor.
- Regular Algebra I is not offered to 7th graders.
Deciding whether Math 7, Math 7 Honors, or Algebra I Honors is the best placement can be a difficult, but important, decision. Please discuss recommendations with your child’s teacher. If you have concerns, please discuss with a counselor at Lanier.