

FAIRFAX COUNTY PUBLIC SCHOOLS
Secondary Mathematics

Sample Course Sequences

Recommended for students who demonstrate mastery of Mathematics 6-8 by the end of grade 8.

Mathematics 7
Grade 7

Mathematics 8
Grade 8

Algebra 1*
Grade 9

Geometry*
Grade 10

Algebra II
Grade 11

**Trigonometry/
Math Analysis**
Grade 12

Recommended for students who demonstrate mastery of Mathematics 6-8 by the end of grade 7.

Mathematics 7
Grade 7

Algebra 1 Honors
Grade 8

Geometry (Honors)
Grade 9

Algebra 2 (Honors)
Grade 10

**Trigonometry/
Math Analysis**
Grade 11

AP Calculus AB
IB Mathematical Studies
Grade 12

Recommended for students who demonstrate mastery of Mathematics 6-8 by the end of grade 7 and need a very enriched mathematics program in grade 7.

Mathematics 7 Honors
Grade 7

Algebra 1 Honors
Grade 8

Geometry Honors
Grade 9

Algebra 2 Honors
Grade 10

Precalculus Honors
IB Standard Level
Mathematics I

Pre-IB Pre-Calculus
Grade 11

AP Calculus BC
IB Standard Level
Mathematics II
IB Higher Level
Mathematics I
Grade 12

Recommended for students who have demonstrated exceptional mastery of Mathematics 6-8 in elementary school and have demonstrated the abstract reasoning skills required for Algebra I (a high-school credit course) in grade 7.

Algebra 1 Honors
Grade 7

Geometry Honors
Grade 8

Algebra 2 Honors
Grade 9

Precalculus Honors
Pre-IB Precalculus
Grade 10

AP Calculus BC
IB Higher Level
Mathematics I
Grade 11

**Multi-Variable Calculus
Matrix Algebra**
IB Higher Level
Mathematics II
Grade 12

AP Statistics and Discrete Mathematics are options after Algebra 2.
 Computer Science is an option concurrent with or subsequent to Geometry beginning in grade 9.
 Multi-Variable Calculus and Matrix Algebra are available after Calculus BC as semester courses.

* A four mathematics credit program for select students seeking a standard diploma may consist of a two-year Algebra I program and a two-year Geometry program.

