

FAIRFAX COUNTY PUBLIC SCHOOLS  
**Secondary Mathematics**

**Course Sequences 2004-2005**

**Sequence 1**

Recommended for students who need an extended time frame to master mathematics concepts and skills.

**Mathematics 7**  
Grade 7

**Mathematics 8**  
Grade 8

**Algebra 1, Part 1**  
Grade 9

**Algebra 1**  
Grade 10

**Geometry, Part 1**  
Grade 11

**Geometry, Part 2**  
Grade 12

**Sequence 2**

Recommended for students who demonstrate mastery of the grade 6-8 Virginia SOL 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

**Sequence 3**

Recommended for students who demonstrate mastery of the Virginia SOL 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

**Sequence 4<sup>1</sup>**

Recommended for students who have mastered part of the Mathematics 7-8 program in grade 6 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 Mathematics Methods I  
Pre-IB Pre-Calculus  
Grade 11

**AP Calculus BC**  
IB Mathematics Methods II  
IB Higher Math I  
Grade 12

**Sequence 5<sup>2</sup>**

Recommended for a very few students who have demonstrated exceptional mastery of Mathematics 7-8 in elementary school and have demonstrated the abstract reasoning skills required for a high school credit Algebra 1 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 Mathematics I  
Grade 11

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

Guidelines approved by the Fairfax County Public Schools Leadership Team, Summer 2003

<sup>1</sup> Guidelines for potential placement in Mathematics 7 Honors are school-based. The director of student services at each middle school has the school's guidelines available.

<sup>2</sup> The divisionwide requirements for placement in Algebra 1 Honors in grade 7 are participation in a full-year's advanced mathematics program in grade 6, a score of 500 or better on the grade 8 Virginia Standards of Learning mathematics test at the end of grade 6, **and** a score at the 95 percentile or better on the Iowa Algebra Aptitude Test in grade 6.

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.