

Fairfax County Public Schools

MATHEMATICS ACADEMIC SEQUENCE OF COURSES K-12 -- AP PYRAMIDS

ELEMENTARY SCHOOL	MIDDLE SCHOOL		HIGH SCHOOL			
Grades K -6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
Curriculum defined by: <ul style="list-style-type: none"> ● Program of Studies (POS) of Fairfax County Public Schools ● Standards of Learning (SOL) of Commonwealth of Virginia Content includes: <ul style="list-style-type: none"> ● Numerical Relationships ● Operations ● Measurement ● Geometry ● Data Analysis, Statistics and Probability ● Patterns, Functions, and Algebra 	Mathematics 7	Prealgebra	Algebra 1	Geometry	AFDA ⁵ or Algebra 2	Algebra 2 or Precalculus or Mathematics Elective ⁶
	Mathematics 7 Honors or Mathematics 7	Algebra 1 or Algebra 1 Honors	Geometry or Geometry Honors	Algebra 2 or Algebra 2 Honors	Precalculus ² or Precalculus Honors ² or AP Precalculus	AP Calculus AB or AP Calculus BC ⁴ or Mathematics Elective ⁶
	Algebra 1 Honors ¹	Geometry Honors	Algebra 2 Honors	Precalculus Honors ²	AP Calculus BC	Multivariable Calculus ³
Advanced Math Curriculum						

1. Students enrolling in Algebra 1 Honors in 7th grade must meet placement criteria.
2. Precalculus and Precalculus Honors include Trigonometry.
3. Multivariable Calculus is a one semester course followed by Matrix Algebra.
4. The prerequisite for AP Calculus BC is Precalculus Honors or AP Precalculus.
5. AFDA is Algebra, Functions, and Data Analysis and may be considered a bridge course to Algebra 2 for students needing additional support in mathematics. Students may also take Prob-Stats after AFDA.
6. Mathematics Electives vary by school and include: Trigonometry (semester), Probability and Statistics (semester or year), Discrete Math (semester or year), Data Science (semester or year), Applied Calculus, AP Statistics, AP Computer Science A, AP Computer Science Principles.

Fairfax County Public Schools
MATHEMATICS ACADEMIC SEQUENCE OF COURSES K-12 -- IB PYRAMIDS

ELEMENTARY SCHOOL	MIDDLE SCHOOL		HIGH SCHOOL			
Grades K -6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
Curriculum defined by: <ul style="list-style-type: none"> ● Program of Studies (POS) of Fairfax County Public Schools ● Standards of Learning (SOL) of Commonwealth of Virginia Content includes: <ul style="list-style-type: none"> ● Numerical Relationships ● Operations ● Measurement ● Geometry ● Data Analysis, Statistics and Probability ● Patterns, Functions, and Algebra Advanced Math Curriculum	Mathematics 7	Prealgebra	Algebra 1	Geometry	AFDA ⁴ or Algebra 2	Algebra 2 or IB Math Applications 1 or Mathematics Elective ⁵
	Mathematics 7 or Mathematics 7 Honors	Algebra 1 or Algebra 1 Honors	Geometry or Geometry Honors	Algebra 2 or Algebra 2 Honors	IB Math Applications 1 or IB Math Analysis 1	IB Math Applications SL 2 or HL 2 or IB Math Analysis SL 2 or HL 2
	Algebra 1 Honors ¹	Geometry Honors	Algebra 2 Honors	IB Math Applications 1 or IB Math Analysis 1	IB Math Analysis 1 or IB Math Analysis HL 2	IB Math Analysis HL 2 or Multivariable Calculus ^{2,3}

1. Students enrolling in Algebra 1 Honors in 7th grade must meet placement criteria.
2. Students pursuing this sequence would need to take the IB Math Analysis HL exam at the end of 12th grade.
3. Multivariable Calculus is a one semester course followed by Matrix Algebra.
4. AFDA is Algebra, Functions, and Data Analysis and may be considered a bridge course to Algebra 2 for students needing additional support in mathematics. Students may also take Prob-Stats after AFDA.
5. Mathematics Electives vary by school and include: Trigonometry (semester), Probability and Statistics (semester or year), Discrete Math (semester or year), Data Science (semester or year), Applied Calculus, AP Statistics, IB Computer Science.