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: • **Program of Studies (POS) of Fairfax County Public Schools** • **Standards of Learning (SOL) of Commonwealth of Virginia** Content includes: • **Numerical Relationships** • **Operations** • **Measurement** • **Geometry** • **Data Analysis, Statistics and Probability** • **Patterns, Functions, and Algebra** **Advanced Math Curriculum**	Algebra 1 Honors [1]	Geometry Honors	Algebra 2 Honors	Precalculus Honors [2]	AP Calculus BC	Multivariable Calculus [3]
	Mathematics 7 Honors or Mathematics 7	Algebra 1 Honors or Algebra 1	Geometry or Geometry Honors	Algebra 2 or Algebra 2 Honors	Precalculus [2] or Precalculus Honors [2]	AP Calculus AB or AP Calculus BC [4]
	Mathematics 7	Prealgebra	Algebra 1	Geometry	AFDA [5] or Algebra 2	Algebra 2 or Precalculus or Mathematics Elective [6]

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.**
5. **AFDA is Algebra, Functions, and Data Analysis and is a bridge course to Algebra 2 for students needing additional support in mathematics.**
6. **Mathematics Electives vary by school and include: Trigonometry (semester), Probability and Statistics (semester or year), Discrete Math (semester or year), AP Statistics, Computer Science, AP Computer Science A, AP Computer Science Principles.**

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: • **Program of Studies (POS) of Fairfax County Public Schools** • **Standards of Learning (SOL) of Commonwealth of Virginia** **Content includes:** • **Numerical Relationships** • **Operations** • **Measurement** • **Geometry** • **Data Analysis, Statistics and Probability** • **Patterns, Functions, and Algebra** **Advanced Math Curriculum**	Algebra 1 Honors [1]	Geometry Honors	Algebra 2 Honors	IB Math Applications 1 [2] 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]
	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
	Mathematics 7	Prealgebra	Algebra 1	Geometry	AFDA [4] or Algebra 2	Algebra 2 or IB Math Applications 1 or Mathematics Elective [5]

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 is a bridge course to Algebra 2 for students needing additional support in mathematics.**
5. **Mathematics Electives vary by school and include: Trigonometry (semester), Probability and Statistics (semester or year), Discrete Math (semester or year), AP Statistics, Computer Science, IB Computer Science.**