



Mathematics

Students from 6th-8th grade have the opportunity to take advanced mathematics courses. Please refer to table below for qualifications.

In Pre-Algebra (compacted Math 6 and Math 7) Students learn the concept of rates and ratios while using tables, graphs, and equations to solve real-world problems involving proportional relationships. Students accurately compute all four operations with multi-digit decimals and work on gaining automaticity in solving multi-step problems involving positive and negative rational numbers. Students expand their knowledge of geometry and apply properties of operations to solve real world problems involving multi-dimensional objects.

In Algebra (compacted Math 8 and HS traditional pathway: Algebra I) Students formalize and extend the mathematics that students learned in Math 6 and Math 7. Instruction deepens and extends understanding of linear and exponential relationships by contracting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving and using quadratic functions.

In Geometry (HS traditional pathway: Geometry), students formalize and extend students' geometric experiences from the middle grades. They explore complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments.

Middle School Requirements for Bridging					
Grade Level		Teacher Recommendation	Math Report Card Grades Trimester 1 (if available)	Placement Test ¹	
Math 6		Grade 6 Pre-Algebra (Compacted Math 6 and Math 7)	YES	80%+	80%+
Math 7		Accelerated Math 7 (Compacted Math 7 and 1/2 Math 8)	YES	80%+	80%+
Accelerated Math 7 (Compacted Math 7 and 1/2 Math 8)		Grade 7 Algebra (Compacted Grade 8 Math and HS Traditional Pathway Algebra)	YES	80%+	80%+
Grade 8 Algebra (Compacted Math 8 and Traditional Pathway Algebra)		Grade 8 Geometry (HS Traditional Pathway Geometry)	YES	80%+	80%+

¹ **Placement Test.** As a predictor of the students likely academic success, the placement test will include items which cover content that will be skipped if acceleration occurs.