

## Commerce City Schools Curriculum Map

**Grade Level: 9<sup>th</sup> grade**  
**Content Area: Mathematics I**

Grading Period	1 <sup>st</sup> 6 Weeks		2 <sup>nd</sup> 6 Weeks		3 <sup>rd</sup> 6 Weeks	
Name of Unit	Function Families	Algebra Investigations	Geometry Gallery	The Chance of Winning	Algebra in Context	Coordinate Geometry
<b>Big Ideas</b>	Function notation Basic Functions Characteristics of functions Sequences as functions Compare rates of change among functions Contrapositive, converse, inverse,	Square Roots Operations with polynomials Binomial theorem Factoring of 2 <sup>nd</sup> degree polynomials & cubes Solve quadratic equations with a=1	Contrapositive, converse, inverse Sum of interior, exterior angles Triangle inequalities SSS, SAS, ASA, AAS, HL Use and prove properties of special quadrilaterals Incenter, orthocenter, Circumcenter, centroid	Principles of Counting Simple permutations & combinations Mutually exclusive, dependent, and conditional events Expected values Compare summary statistics Random sample Mean absolute deviation	Solve equations using radicals Solve simple rational equations(a=1 only) Discovering even, odd, and neither when working with various functions	Distance between 2 points Distance between a point and a line Midpoint
<b>Pacing of Unit</b>	<b>2 weeks</b>	<b>3 weeks</b>	<b>4 weeks</b>	<b>3 weeks</b>	<b>3 weeks</b>	<b>2 weeks</b>
<b>Domain/Content Weight</b>	Algebra Geometry	Algebra	Geometry	Data Analysis & Probability	Algebra	Geometry Algebra
<b>Resources</b>	<i>Math I Frameworks</i> by Georgia Department of Education <i>Georgia Mathematics 1</i> by Carnegie Learning					
<b>Key Standards</b> (See <a href="http://www.georgiastandards.org">www.georgiastandards.org</a> for a list of standards by grade level and content area)	MM1A 1a,b,c, d,e,f,g	MM1A2a,b,c, d,e,f,g MM1A3a	MM1G3a,b,c,d,e MM1G2a, b	MM1D1a,b MM1D2a,b,c,d MM1D3a,b,c MM1D4	MM1A 1h,i MM1A3b,c,d	MM1G 1a,b,c,d,e
<b>Related Standards</b>	MM1A1 i MM1A2a,b,e				MM1A 1a,b, c,d,e,f,g MM1A3a	