

Commerce City Schools Curriculum Map

Grade Level: 9th grade
Content Area: Mathematics I

| Grading Period | 1 st 6 Weeks | | 2 nd 6 Weeks | | 3 rd 6 Weeks | |
|--|---|--|---|--|---|--|
| Name of Unit | Function Families | Algebra Investigations | Geometry Gallery | The Chance of Winning | Algebra in Context | Coordinate Geometry |
| Big Ideas | 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 nd 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 |
| Pacing of Unit | 4 weeks | 5 weeks | 7 weeks | 6 weeks | 6 weeks | 4 weeks |
| Domain/Content Weight | Algebra Geometry | Algebra | Geometry | Data Analysis & Probability | Algebra | Geometry Algebra |
| Resources | <i>Math I Frameworks</i> by Georgia Department of Education <i>Georgia Mathematics 1</i> by Carnegie Learning | | | | | |
| Key Standards (See www.georgiastandards.org for a list of standards by grade level and content area) | MM1A1a,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 | MM1A1h,i MM1A3b,c,d | MM1G1a,b,c,d,e |
| Related Standards | MM1A1 i MM1A2a,b,e | | | | MM1A1a,b, c,d,e,f,g MM1A3a | |