

Carroll ISD Advanced Geometry

2025-2026 Year-At-A-Glance

	1 st Grading Period	2 nd Grading Period	3 rd Grading Period	4 th Grading Period
Process Standards	G.1 A, B, C, D, E, F, G Math Process Standards, how students understand and learn mathematics, used throughout the course			
TEKS	Unit 1 - Tools of Geometry G.2A, G.2B, G.4A, G.5B, G.5C Unit 2 - Reasoning and Proof G.4A, G.4B, G.4C, G.5A, G.6A Unit 3 - Parallel and Perpendicular Lines G.2B, G.2C, G.5A, G.5B, G.5C, G.6A	Unit 4 - Congruent Triangles G.2B, G.5A, G.6B, G.6C, G.6D Unit 5 - Relationships within Triangles G.5A, G.5C, G.5D, G.6D Unit 6 - Quadrilaterals G.2B, G.5A, G.6E	Unit 7 - Proportions and Similarity G.6D, G.7A, G.7B, G.8A, G.10B Unit 8 - Right Triangles and Trigonometry G.6D, G.8B, G.9A, G.9B Unit 11 - Areas of Polygons and Circles G.10B, G.11A, G.11B, G.12C, G.13B	Unit 11 (con.) Unit 12 - Extending Surface Area and Volume G.4D, G.10A, G.10B, G.11C, G.11D Unit 9 - Transformations G.3A, G.3B, G.3C, G.3D, G.6C Unit 10 - Circles G.2B, G.12A, G.12B, G.12D, G.12E Probability and Measurement G.13A, G.13C, G.13D, G.13E
Topic Focus	Unit 1- Tools of Geometry Points, Lines, Planes Segments, Midpoint, Distance Angles and Angle Pairs Constructions Unit 2- Reasoning and Proof Conditional Statements Inductive and Deductive Reasoning	Unit 4 - Congruent Triangles Triangle Sum Properties Proving Triangles Congruent Isosceles Triangle Theorem Unit 5 - Relationships within Triangles Midsegment Theorem	Unit 7 - Proportions and Similarity Ratios, Proportions, Geometric Mean Similar Polygons Proving Triangles Similar Dilations Unit 8 - Right Triangles and Trigonometry	Unit 11- Areas of Polygons and Circles Area of: Triangles & Parallelograms Trapezoids, Rhombuses, Kites Circles & Sectors Regular Polygons Composite Figures Perimeter & Area of Similar Figures Geometric Probability

	Algebraic Properties & Proofs Basic Geometry Proofs Unit 3 - Parallel and Perpendicular Lines Parallel Lines and Related Angles Proving Lines are Parallel Slopes of Parallel & Perpendicular Lines Equations of Lines	Special Segments in Triangles Triangle Inequalities Unit 6 - Quadrilaterals Angle Measures in Polygons Properties of Parallelograms Properties of Special Parallelograms Properties of Trapezoids and Kites Coordinate Geometry	Pythagorean Theorem and its Converse Pythagorean Triples Similarity in Right Triangles Special Right Triangles Trigonometry Unit 11- Areas of Polygons and Circles Area of: Triangles & Parallelograms Trapezoids, Rhombuses, Kites Circles & Sectors Regular Polygons Composite Figures Perimeter & Area of Similar Figures Geometric Probability	Unit 12 - Extending Surface Area and Volume Nets, Cross Sections, and Isometric and Orthographic Views Surface Area & Volume of: Prisms and Cylinders Pyramids and Cones Spheres Composite Solids Similar Solids Spherical Geometry Unit 9 - Transformations and Symmetry Translations Reflections Rotations Dilations Symmetry Composite Transformations Unit 10 - Circles Angle Measures (Degree/Radian) Arc Measures Chords, Tangents and Secants Segment Lengths in Circles Angle Relationships in Circles Equations of Circles Area and Circumference Arc Length Probability and Measurement
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				Sample Spaces Permutations/Combinations Independent Events/Dependent Events Conditional Probability Mutually Exclusive Events
Additional Resources McGraw-Hill Geometry 2016 Delta Math	Unit 1 - Chapter 1 Sections 1.1-1.5, 2.5 Unit 2 - Chapter 2 Sections 2.1-2.4, 2.6-2.8 Unit 3- Chapter 3 Sections 3.1-3.6	Unit 4 - Chapter 4 Sections 4.1-4.6, 4.8 Unit 5 - Chapter 5 Sections 5.1-5.3, 5.5, 5.6 Unit 6 - Chapter 6 Sections 6.1-6.6	Unit 7 - Chapter 7 Sections 7.1-7.5, 7.7 Unit 8 - Chapter 8 Sections 8.1- 8.6 Unit 11 - Chapter 11 Sections 11.1-11.5, 13.3	Unit 11 - Chapter 11 Sections 11.1-11.5, 13.3 Unit 12 - Chapter 12 Sections 1.7, 12.1-12.8 Unit 9 - Chapter 9 Sections 9.1-9.6 Unit 10 - Chapter 10 Sections 10.1-10.8 Chapter 13 Sections 13.1, 13.2, 13.5, 13.6

Power Standards: G.2B, G.2C, G.3B, G.5A, G.6A, G.6B, G.7B, G.9A, G.9B, G.12D