

# Geometry – Grades 10-12

## District 2853

Month	Content	Performance Standards Addressed Grades 9-11 Grades 11-12	Skills for Student Achievement	Assessment Power Standards
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September	<ul style="list-style-type: none"> <li>Points and Lines</li> <li>Language &amp; Logic of Geometry</li> </ul>	Geometry - Benchmarks #1, #8		<ul style="list-style-type: none"> <li>Identify the four types of points and lines</li> <li>Design a two-point perspective drawing</li> <li>Identify Euclidean postulates, statements and definitions</li> </ul>	Formative Assessments, Quiz, Test  Identify points, lines, and planes. Find the distance between two points.	
October	<ul style="list-style-type: none"> <li>Angles and Lines</li> </ul>	Mathematical Reasoning - Benchmarks #2, #6 Geometry - Benchmark #1		<ul style="list-style-type: none"> <li>Classify angle types and properties</li> <li>Demonstrate a conditional, converse and bi-conditional</li> </ul>	Formative Assessments, Quiz, Test  Identify Angle Relationships	
November	<ul style="list-style-type: none"> <li>Reflections and Congruence</li> </ul>	Geometry - Benchmarks #1, #6, #7		<ul style="list-style-type: none"> <li>Classify the types of transformations</li> <li>Determine figure congruence</li> </ul>	Formative Assessments, Quiz, Test  Identify congruent polygons	
December	<ul style="list-style-type: none"> <li>Proofs and Congruence</li> <li>Polygons and Symmetry</li> </ul>	Geometry - Benchmark #1		<ul style="list-style-type: none"> <li>Identify corresponding parts of congruent figures</li> <li>Write two-column and paragraph proofs</li> <li>Identify types of quadrilaterals and properties</li> </ul>	Formative Assessments, Quiz, Test  Use deductive reasoning to write proofs using theorems	
January	<ul style="list-style-type: none"> <li>Triangle Congruence</li> </ul>	Geometry - Benchmark #1		<ul style="list-style-type: none"> <li>Classify types of triangle congruence</li> <li>Determine properties and characteristics of parallelograms</li> </ul>	Formative Assessments, Quiz, Test Apply properties to Identify congruent/corresponding triangles.	
February	<ul style="list-style-type: none"> <li>Perimeters and Area (Inquiry Standard)</li> </ul>	Geometry - Benchmarks #3, #4		<ul style="list-style-type: none"> <li>Determine area and perimeter of various polygons</li> <li>Apply the Pythagorean Theorem</li> </ul>	Formative Assessments, Quiz, Test Use formulas to find area and perimeter on polygons.	
March	<ul style="list-style-type: none"> <li>3 – D Figures</li> </ul>	Spatial Sense - Benchmark #1		<ul style="list-style-type: none"> <li>Draw and classify three-dimensional figures</li> <li>Determine surface nets for 3-D figures</li> </ul>	Formative Assessments, Quiz, Tests Use formulas to find volume and surface area on polyhedrons.	
April	<ul style="list-style-type: none"> <li>Surface Area and Volumes (Similarity)</li> </ul>	Geometry - Benchmarks #1, #3, #5		<ul style="list-style-type: none"> <li>Compute surface area and volume</li> <li>Demonstrate indirect proof</li> <li>Demonstrate coordinate proof</li> <li>Identify similar figures</li> <li>Apply proportions to problem solve</li> </ul>	Formative Assessments, Quiz, Test  Use formulas to find volume and surface area on polyhedrons.	

May	<ul style="list-style-type: none"> <li>· Similar Triangles and Trigonometry</li> <li>· Circles</li> <li>· Coordinate Geometry</li> </ul>	Geometry - Benchmarks #1, #2, #3, #4 Computation & Operation - Benchmark #3	<ul style="list-style-type: none"> <li>· Classify types of similarity</li> <li>· Apply right triangle properties</li> <li>· Use trig properties to determine angle measure and segment length</li> <li>· Determine arc measure and arc length</li> <li>· Apply properties of circle terms</li> </ul>	Formative assessments, quiz, tests.  Identify similar triangles, and apply trigonometric concepts to find missing values.
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