

# Geometry

Reporting Category	Content Complexity 1 - Recall 2 - Basic applications of skills and concepts 3 - Strategic thinking and complex reasoning	Standard Grouping	% of FSA Test	MFAS
<b>Congruence, Similarity, Right Triangles and Trigonometry</b>	1	<a href="#"><u>MAFS.912.G-CO.1.1</u></a>	46%	<ul style="list-style-type: none"> <li>• <a href="#"><u>Definition of Angle</u></a></li> <li>• <a href="#"><u>Definition of a Circle</u></a></li> <li>• <a href="#"><u>Definition of Perpendicular Lines</u></a></li> <li>• <a href="#"><u>Definition of Parallel Lines</u></a></li> <li>• <a href="#"><u>Definition of Line Segment</u></a></li> </ul>
	2	<a href="#"><u>MAFS.912.G-CO.1.2</u></a>		<ul style="list-style-type: none"> <li>• <a href="#"><u>Demonstrating Rotations</u></a></li> <li>• <a href="#"><u>Demonstrating Reflections</u></a></li> <li>• <a href="#"><u>Demonstrating Translations</u></a></li> <li>• <a href="#"><u>Transformations and Functions</u></a></li> <li>• <a href="#"><u>Comparing Transformations</u></a></li> </ul>
	3	<a href="#"><u>Also Assesses MAFS.912.G-CO.1.4</u></a>		<ul style="list-style-type: none"> <li>• <a href="#"><u>Define a Rotation</u></a></li> <li>• <a href="#"><u>Define a Reflection</u></a></li> <li>• <a href="#"><u>Define a Translation</u></a></li> </ul>
	2	<a href="#"><u>MAFS.912.G-CO.1.5</u></a>		<ul style="list-style-type: none"> <li>• <a href="#"><u>Two Triangles</u></a></li> <li>• <a href="#"><u>Reflect a Semi-Circle</u></a></li> <li>• <a href="#"><u>Indicate the Transformations</u></a></li> <li>• <a href="#"><u>Rotation of a Quadrilateral</u></a></li> </ul>
	2	<a href="#"><u>Also Assesses MAFS.912.G-CO.1.3</u></a>		<ul style="list-style-type: none"> <li>• <a href="#"><u>Transformations of Rectangles and Squares</u></a></li> <li>• <a href="#"><u>Transformations of Parallelograms and Rhombi</u></a></li> <li>• <a href="#"><u>Transformations of Trapezoids</u></a></li> <li>• <a href="#"><u>Transformations of Regular Polygons</u></a></li> </ul>
	2	<a href="#"><u>MAFS.912.G-CO.2.6</u></a>		<ul style="list-style-type: none"> <li>• <a href="#"><u>Repeated Reflections and Rotations</u></a></li> <li>• <a href="#"><u>Transform This</u></a></li> <li>• <a href="#"><u>Congruent Trapezoids</u></a></li> </ul>
	1	<a href="#"><u>Also Assesses MAFS.912.G-CO.2.7</u></a>		<ul style="list-style-type: none"> <li>• <a href="#"><u>Congruence Implies Congruent Corresponding Parts</u></a></li> <li>• <a href="#"><u>Showing Congruence using Corresponding Parts 1</u></a></li> <li>• <a href="#"><u>Showing Congruence using Corresponding Parts 2</u></a></li> <li>• <a href="#"><u>Proving Congruence Using Corresponding Parts</u></a></li> </ul>

		<ul style="list-style-type: none"> <li>• <a href="#">Showing Triangles Congruent Using Rigid Motion</a></li> </ul>
2	<a href="#">and MAFS.912.G-CO.2.8</a>	<ul style="list-style-type: none"> <li>• <a href="#">Justifying SSS Congruence</a></li> <li>• <a href="#">Justifying SAS Congruence</a></li> <li>• <a href="#">Justifying ASA Congruence</a></li> <li>• <a href="#">Justifying HL Congruence</a></li> </ul>
3	<a href="#">MAFS.912.G-CO.3.9</a>	<ul style="list-style-type: none"> <li>• <a href="#">Proving Vertical Angles Theorem</a></li> <li>• <a href="#">Proving Alternate Interior Angles Theorem</a></li> <li>• <a href="#">Equidistant Points</a></li> <li>• <a href="#">Finding Angle Measures – 1</a></li> <li>• <a href="#">Finding Angle Measures – 2</a></li> <li>• <a href="#">Finding Angle Measures – 3</a></li> <li>• <a href="#">Name That Triangle</a></li> <li>• <a href="#">The Measure of an Angle of a Triangle</a></li> </ul>
3	<a href="#">MAFS.912.G-CO.3.10</a>	<ul style="list-style-type: none"> <li>• <a href="#">Triangle Sum Proof</a></li> <li>• <a href="#">Isosceles Triangle Proof</a></li> <li>• <a href="#">Triangle Midsegment Proof</a></li> <li>• <a href="#">Median Concurrence Proof</a></li> <li>• <a href="#">An Isosceles Trapezoid Problem</a></li> <li>• <a href="#">Interior Angles of a Polygon</a></li> <li>• <a href="#">Locating the Missing Midpoint</a></li> <li>• <a href="#">Proving the Triangle Inequality Theorem</a></li> <li>• <a href="#">The Third Side of a Triangle</a></li> <li>• <a href="#">Triangles and Midpoints</a></li> </ul>
3	<a href="#">MAFS.912.G-CO.3.11</a>	<ul style="list-style-type: none"> <li>• <a href="#">Proving Parallelogram Side Congruence</a></li> <li>• <a href="#">Proving Parallelogram Diagonals Bisect</a></li> <li>• <a href="#">Proving a Rectangle is a Parallelogram</a></li> <li>• <a href="#">Proving Parallelogram Angle Congruence</a></li> <li>• <a href="#">Proving Congruent Diagonals</a></li> <li>• <a href="#">Angles of a Parallelogram</a></li> <li>• <a href="#">Comparing Lengths in a Parallelogram</a></li> <li>• <a href="#">Finding Angle C</a></li> <li>• <a href="#">Frame It Up</a></li> <li>• <a href="#">Two Congruent Triangles</a></li> </ul>
2	<a href="#">MAFS.912.G-CO.4.12</a>	<ul style="list-style-type: none"> <li>• <a href="#">Constructing a Congruent Segment</a></li> <li>• <a href="#">Constructing a Congruent Angle</a></li> </ul>

		<ul style="list-style-type: none"> <li>• <a href="#">Bisecting a Segment and Angle Worksheet</a></li> <li>• <a href="#">Constructions for Parallel Lines</a></li> <li>• <a href="#">Constructions for Perpendicular Lines</a></li> </ul>
2	<a href="#">Also Assesses MAFS.912.G-CO.4.13</a>	<ul style="list-style-type: none"> <li>• <a href="#">Construct the Center of a Circle</a></li> <li>• <a href="#">Regular Hexagon in a Circle</a></li> <li>• <a href="#">Equilateral Triangle in a Circle</a></li> <li>• <a href="#">Square in a Circle</a></li> </ul>
2	<a href="#">MAFS.912.G-SRT.1.1</a>	<ul style="list-style-type: none"> <li>• <a href="#">Dilation of a Line: Center on the Line</a></li> <li>• <a href="#">Dilation of a Line: Factor of Two</a></li> <li>• <a href="#">Dilation of a Line: Factor of One Half</a></li> <li>• <a href="#">Dilation of a Line Segment</a></li> </ul>
2	<a href="#">MAFS.912.G-SRT.1.2</a>	<ul style="list-style-type: none"> <li>• <a href="#">To Be or Not To Be Similar</a></li> <li>• <a href="#">The Consequences of Similarity</a></li> <li>• <a href="#">Showing Similarity</a></li> </ul>
2	<a href="#">MAFS.912.G-SRT.1.3</a>	<ul style="list-style-type: none"> <li>• <a href="#">Describe the AA Similarity Theorem</a></li> <li>• <a href="#">Justifying a Proof of the AA Similarity Theorem</a></li> <li>• <a href="#">Prove the AA Similarity Theorem</a></li> </ul>
3	<a href="#">Also Assesses MAFS.912.G-SRT.2.4</a>	<ul style="list-style-type: none"> <li>• <a href="#">Triangle Proportionality Theorem</a></li> <li>• <a href="#">Converse of the Triangle Proportionality Theorem</a></li> <li>• <a href="#">Pythagorean Theorem Proof</a></li> <li>• <a href="#">Geometric Mean Proof</a></li> </ul>
3	<a href="#">MAFS.912.G-SRT.2.5</a>	<ul style="list-style-type: none"> <li>• <a href="#">Basketball Goal</a></li> <li>• <a href="#">County Fair</a></li> <li>• <a href="#">Similar Triangles - 1</a></li> <li>• <a href="#">Prove Rhombus Diagonals Bisect Angles</a></li> <li>• <a href="#">Similar Triangles - 2</a></li> </ul>
2	<a href="#">MAFS.912.G-SRT.3.8</a>	<ul style="list-style-type: none"> <li>• <a href="#">Will it Fit?</a></li> <li>• <a href="#">TV Size</a></li> <li>• <a href="#">River Width</a></li> <li>• <a href="#">Washington Monument</a></li> <li>• <a href="#">Holiday Lights</a></li> <li>• <a href="#">Step Up</a></li> <li>• <a href="#">Lighthouse Keeper</a></li> <li>• <a href="#">Perilous Plunge</a></li> </ul>
2	<a href="#">Also Assesses MAFS.912.G-SRT.3.6</a>	<ul style="list-style-type: none"> <li>• <a href="#">The Sine of 57</a></li> <li>• <a href="#">The Cosine Ratio</a></li> </ul>

	2	<a href="#">and MAFS.912.G-SRT.3.7</a>		<ul style="list-style-type: none"> <li>• <a href="#">Patterns in the 30-60-90 Table</a></li> <li>• <a href="#">Finding Sine</a></li> <li>• <a href="#">Right Triangle Relationships</a></li> <li>• <a href="#">Sine and Cosine</a></li> </ul>
<b>Circles, Geometric Measurement and Geometric Properties with Equations</b>	2	<a href="#">MAFS.912.G-C.1.1</a>	38%	<ul style="list-style-type: none"> <li>• <a href="#">All Circles Are Similar</a></li> <li>• <a href="#">Similar Circles</a></li> </ul>
	2	<a href="#">MAFS.912.G-C.1.2</a>		<ul style="list-style-type: none"> <li>• <a href="#">Central and Inscribed Angles</a></li> <li>• <a href="#">Circles with Angles</a></li> <li>• <a href="#">Inscribed Angle on Diameter</a></li> <li>• <a href="#">Tangent Line and Radius</a></li> </ul>
	3	<a href="#">MAFS.912.G-C.1.3</a>		<ul style="list-style-type: none"> <li>• <a href="#">Inscribed Circle Construction</a></li> <li>• <a href="#">Circumscribed Circle Construction</a></li> <li>• <a href="#">Inscribed Quadrilaterals</a></li> </ul>
	3	<a href="#">MAFS.912.G-C.2.5</a>		<ul style="list-style-type: none"> <li>• <a href="#">Arc Length and Radians</a></li> <li>• <a href="#">Deriving the Sector Area Formula</a></li> <li>• <a href="#">Arc Length</a></li> <li>• <a href="#">Sector Area</a></li> </ul>
	3	<a href="#">MAFS.912.G-GMD.1.1</a>		<ul style="list-style-type: none"> <li>• <a href="#">Area and Circumference - 1</a></li> <li>• <a href="#">Area and Circumference - 2</a></li> <li>• <a href="#">Area and Circumference - 3</a></li> <li>• <a href="#">The Volume of a Pyramid</a></li> <li>• <a href="#">Volume of a Cylinder</a></li> <li>• <a href="#">Volume of a Cone</a></li> </ul>
	2	<a href="#">MAFS.912.G-GMD.1.3</a>		<ul style="list-style-type: none"> <li>• <a href="#">Sports Drinks</a></li> <li>• <a href="#">Snow Cones</a></li> <li>• <a href="#">Do Not Spill the Water!</a></li> <li>• <a href="#">The Great Pyramid</a></li> </ul>
	2	<a href="#">MAFS.912.G-GMD.2.4</a>		<ul style="list-style-type: none"> <li>• <a href="#">Slice It</a></li> <li>• <a href="#">Slice of a Cone</a></li> <li>• <a href="#">Inside the Box</a></li> <li>• <a href="#">2D Rotations of Triangles</a></li> <li>• <a href="#">2D Rotations of Rectangles</a></li> <li>• <a href="#">Working Backwards - 2D Rotations</a></li> </ul>
	2	<a href="#">MAFS.912.G-GPE.1.1</a>		<ul style="list-style-type: none"> <li>• <a href="#">Derive the Circle - Specific Points</a></li> <li>• <a href="#">Derive the Circle - General Points</a></li> <li>• <a href="#">Complete the Square for Center - Radius</a></li> </ul>

	2	<a href="#">MAFS.912.G-GPE.2.4</a>		<ul style="list-style-type: none"> <li>• <a href="#">Complete the Square for Center - Radius 2</a></li> <li>• <a href="#">Describe the Quadrilateral</a></li> <li>• <a href="#">Type of Triangle</a></li> <li>• <a href="#">Diagonals of a Rectangle</a></li> <li>• <a href="#">Midpoints of Sides of a Quadrilateral</a></li> </ul>
	2	<a href="#">MAFS.912.G-GPE.2.5</a>		<ul style="list-style-type: none"> <li>• <a href="#">Proving Slope Criterion for Parallel Lines - One</a></li> <li>• <a href="#">Proving Slope Criterion for Parallel Lines - Two</a></li> <li>• <a href="#">Writing Equations for Parallel Lines</a></li> <li>• <a href="#">Writing Equations for Perpendicular Lines</a></li> <li>• <a href="#">Proving Slope Criterion for Perpendicular Lines - One</a></li> <li>• <a href="#">Proving Slope Criterion for Perpendicular Lines - Two</a></li> </ul>
	1	<a href="#">MAFS.912.G-GPE.2.6</a>		<ul style="list-style-type: none"> <li>• <a href="#">Partitioning a Segment</a></li> <li>• <a href="#">Centroid Coordinates</a></li> </ul>
	1	<a href="#">MAFS.912.G-GPE.2.7</a>		<ul style="list-style-type: none"> <li>• <a href="#">Pentagon's Perimeter</a></li> <li>• <a href="#">Perimeter and Area of a Rectangle</a></li> <li>• <a href="#">Perimeter and Area of a Right Triangle</a></li> <li>• <a href="#">Perimeter and Area of an Obtuse Triangle</a></li> </ul>
<b>Modeling with Geometry</b>	1	<a href="#">MAFS.912.G-MG.1.1</a>	16%	<ul style="list-style-type: none"> <li>• <a href="#">Size It Up</a></li> <li>• <a href="#">Camping Calculations</a></li> <li>• <a href="#">Estimating Volume</a></li> <li>• <a href="#">Estimating Area</a></li> </ul>
	2	<a href="#">MAFS.912.G-MG.1.2</a>		<ul style="list-style-type: none"> <li>• <a href="#">Population of Utah</a></li> <li>• <a href="#">How Many Trees?</a></li> <li>• <a href="#">Mudslide</a></li> </ul>
	3	<a href="#">MAFS.912.G-MG.1.3</a>		<ul style="list-style-type: none"> <li>• <a href="#">Land for the Twins</a></li> <li>• <a href="#">The Sprinters' Race</a></li> <li>• <a href="#">Softball Complex</a></li> <li>• <a href="#">The Duplex</a></li> </ul>