

Marlboro High School

Math Department

Geometry Common Core Curriculum Map - 2015

Month	Module & Unit	Lesson	Standard	Assessment
September	Unit 1 Constructions & Unknown Angles	Constructing an Equilateral Triangle Constructing an Equilateral Triangle II Copy and Bisect an Angle Construct a Perpendicular Bisector Points of Concurrency	G.CO.1 G.CO.12 G.CO.13	Homework Quizzes Exams
	Unit 2 Unknown Angles	Solve for Unknown Angles - Angles & Lines at a Point Solve for Unknown Angles – Transversals Solve for Unknown Angles - Angle in a Triangle Unknown Angle Proofs - Writing Proofs	G.CO.9	
October	Unit 3 Transformations	Rotating Figures by a Given Amount of Degrees Performing Rotations Performing Reflections Reflectional & Rotational Symmetry Performing Translations Compositions of Transformations Congruence and Correspondence	G.CO.2 G.CO.3 G.CO.4 G.CO.5 G.CO.6 G.CO.7 G.CO.12 G.CO.13	Homework Quizzes Exams

November	Unit 4 Triangle Proofs	<p>SAS (Side-Angle-Side) Congruence Criteria</p> <p>SAS (Side-Angle-Side) Congruence Criteria PROOFS</p> <p>Proving Triangles Congruent Using SSS and ASA Criteria</p> <p>Proving Triangles Congruent Using AAS and HL Criteria</p> <p>Proving Triangles Congruent Practice (w/ CPCTC)</p> <p>Isosceles Triangles and Triangle Congruence</p> <p>Using Properties of Quadrilaterals in Proofs</p> <p>MidSegments & Centroids of Triangles</p>	<p>G.CO.7</p> <p>G.CO.8</p> <p>G.CO.10</p> <p>G.CO.11</p>	<p>Homework</p> <p>Quizzes</p> <p>Exams</p>
December	Unit 5 Similar Triangles	<p>Constructing Scale Drawings</p> <p>Creating Scale Drawings Using the Ratio Method</p> <p>Area of a Triangle & Side Splitter Theorem</p> <p>How do Dilations Compare?</p> <p>Splitting Segments into Congruent Segments</p> <p>Double Dilations</p> <p>Similar Polygons</p> <p>Similar Figures (Similarity Transformations)</p> <p>Proving Triangles Similar</p> <p>Angle Bisectors & Parallel Lines w/ Similarity</p>	<p>G.SRT.1</p> <p>G.SRT.2</p> <p>G.SRT.3</p> <p>G.SRT.4</p> <p>G.SRT.5</p> <p>G.MG.1</p> <p>G.MG.3</p>	<p>Homework</p> <p>Quizzes</p> <p>Exams</p>
January	Unit 6 Radicals & Right Triangles	<p>HLLS & SAAS (Right Triangles - Altitude)</p> <p>Add & Subtract Radicals</p> <p>Multiplying & Dividing Radicals</p>	<p>G.SRT.4</p>	<p>Homework</p> <p>Quizzes</p> <p>Exams</p>

		Pythagorean Theorem Special Right Triangles	G.SRT.4	
February	Unit 7 Right Triangle Trigonometry	Using Trig Ratios to Find Missing Side Lengths Using Trig Ratios to Find Missing Angles Real Life Applications of the Trig Ratios Degrees & Radians	G.SRT.6 G.SRT.7 G.SRT.8	Homework Quizzes Exams
	Unit 8 Dimensional Analysis	Perimeter & Area Composite Area & Area of Shaded Regions Lateral Area, Prisms & Cylinders Volume of Prisms, Cylinders, Cones, & Pyramids Volume Applications Cross-sections and Cavalieri's Principle	G.GMD.1 G.GMD.3 G.GMD.4 G.MG.1 G.MG.2 G.MG.3	
March	Unit 9 Analytic Geometry	Properties of Points/Lines/Planes Graphing Lines, Parallel vs. Perpendicular Writing Equations of Lines, Parallel & Perpendicular	G.GPE.4 G.GPE.5 G.GPE.6 G.GPE.7	Homework Quizzes Exams

	Unit 10 Analytic Proof	Intro to Coordinate Proofs Find the Distance from a Point to a Line Partitioning Segments/Midpoint Formula Area & Perimeter of Bounded Regions Inequalities & Bounded Regions	G.GPE.4 G.GPE.5 G.GPE.6 G.GPE.7	
April	Unit 11 Circle Geometry:Angles & Arcs	Intro to Circles Properties of Central & Inscribed Angles Arc Length and Area of Sectors Area of Shaded Regions Chord Properties Finding Various Arc Measures Properties of Tangents Properties of Tangents and Secants (Angles & Arc Measures)	G.C.2 G.C.3 G.C.1 G.C.5	Homework Quizzes Exams
May	Unit 12 Circle Geometry: Segments & Lines	Properties of Tangents and Secants (Segment Measures) Equations of Circles Writing the Equation of a Circle by Completing the Square Writing Equations of Tangent Lines Cyclic Quadrilaterals	G.C.2 G.C.3 G.GPE.1 G.GPE.4	Homework Quizzes Exams
June	Unit 13 Algebra Review	GCF, DOTS, and Trinomial Factoring Factoring by Grouping & Trinomials where $a > 1$ Solving Quadratics Simplifying & Multiplying Rational Expressions	A.APR.2 A.APR.3 A.APR.4 A.CED.1 A.REI.2 A.REI.3 A.REI.4	Homework Quizzes Exams

		Dividing Rational Expressions		
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