Year at a Glance

Geometry & Geometry Honors

Course Number 1206310/1206320

Course Description:

In Geometry, instructional time will emphasize five areas: (1) proving and applying relationships and theorems involving two-dimensional figures using Euclidean geometry and coordinate geometry; (2) establishing congruence and similarity using criteria from Euclidean geometry and using rigid transformations; (3) extending knowledge of geometric measurement to two-dimensional figures and three-dimensional figures; (4) creating and applying equations of circles in the coordinate plane and (5) developing an understanding of right triangle trigonometry.

Textbook Publisher:

Florida Reveal Geometry, McGraw Hill (Students have online access through my.sarasotacountyschols.net.)

Standards:

Available on CPalms: Regular & Honors

Available on FL Department of Education: Regular & Honors

Assessment Dates:

AP1- November 13-17

AP2- February 29-March 7

State End of Course Exam- May

Quarter 1	**Unit 1: Geometric Reasoning**	1-1 Points, Lines, and Planes 1-2 Line Segments Days 1-3 Locating Points Using Ratios 1-4 Midpoints and Bisectors 1-5 Locating Points Using Weighted Averages
	Unit 2: Angles & Geometric Figures	2-1 Angles & Congruence 2-2 Angle Relationships 2-3 Two-Dimensional Figures
	Unit 3A: Logic & Proofs	3-1 Conjectures & Counterexamples 3-2 Statements, Conditionals & Biconditionals 3-3 Deductive Reasoning 3-4 Writing Proofs 3-5 Proving Segment Relationships 3-6 Proving Angle Relationships
	Unit 3B: Line Relationships	3-7 Parallel Lines & Transversals 3-8 Slope & Equations of Lines 3-9 Proving Lines Parallel 3-10 Perpendiculars & Distance
Quarter 2	**Unit 4: Transformations & Symmetry**	4-1 Reflections 4-2 Translations 4-3 Rotations 4-4 Composition of Transformations 4-5 Symmetry (Honors)
	Unit 5: Triangles & Congruence	5-1 Angles in Triangles 5-2 Congruent Triangles 5-6 Isosceles & Equilateral Triangles 5-3 A Criteria for Triangle Congruence (Honors) 5-3 Proving Triangles Congruent: SSS, SAS 5-4 Proving Triangles Congruent: ASA, AAS 5-5 Proving Right Triangles Congruent 5-7 Triangles & Coordinate Proof
	Unit 6: Relationships in Triangles	6-4 Inequalities in Triangles 6-5 Indirect Proof (Honors) 6-6 The Triangle Inequality 6-7 Inequalities in Two Triangles
	Unit 7: Quadrilaterals	7-1 Angles of Polygons 7-2 Parallelograms 7-3 Tests for Parallelograms 7-4 Rectangles 7-5 Rhombi and Squares 7-6 Trapezoids
Quarter 3	**Unit 8: Similarity**	8-1 Dilations 8-2 Similar Polygons 8-3 Similar Triangles: AA Similarity 8-4 Similar Triangles: SSS and SAS Similarity 8-5 Triangle Proportionality 8-6 Parts of Similar Triangles
	Unit 9: Right Triangles and Trigonometry	9-1 Pythagorean Theorem and Its Converse 9-2 Special Right Triangles 9-3 Trigonometry 9-4 Applying Trigonometry 9-4B Trigonometry and Areas of Triangles (Honors)

		9-5 The Law of Sines (Honors) 9-6 The Law of Cosines (Honors)
Quarter 4	**Unit 10: Circle**	10-1 Circles and Circumference 10-2 Measuring Angles and Arcs 10-3 Arcs and Chords 10-4Inscribed Angles 10-5 Tangents 10-6 Tangents and Secants 10-7 Equations of Circles
	Unit 11A: Two-Dimensional Geometric Measurement	11-1 Areas of Quadrilaterals 11-2 Areas of Regular Polygons 11-3 Areas of Circles and Sectors
	Unit 11B: Three-Dimensional Geometric Measurement	2-5 Three-Dimensional Figures (brief overview of polyhedrons – faces, edges, vertices) 11-5 Cross Sections and Solids of Revolution 11-4 Surface Area 11-6 Volumes of Prisms and Pyramids 11-7 Volumes of Cylinders, Cones, and Spheres 11-8 Applying Similarity to Solid Figures 11-9 Density

Please Note:
- Teachers may use additional resources as noted on an individual teacher's syllabus. For specific questions regarding individual classrooms please contact the teacher for clarification.
- This guide represents a recommended sequence that can be used voluntarily by teachers. Dates may vary depending on individual classrooms. For specific questions regarding pacing please contact the individual teacher for clarification.
- **Graduation Requirements:** Students earning a standard high school diploma must earn at least one math credit in Algebra 1 or an equivalent course. The student must also pass the FSA Algebra 1 End of Course Exam (EOC) or earn a concordant score. More information on graduation requirements and concordant scores can be found here: Graduation Requirements for Florida's Statewide Assessments.