

West Contra Costa Unified School District
Suggested Pacing Guide for High School Geometry
Text: Discovering Geometry - Serra

Time/ # of days	Topics: Content & Assessment	CA Content Standards	Resources
5	Chapter 7: Transformations and Tessellations		
1	7-1: Transformations & Symmetry	22.0	
2	7-2: Properties of Isometries	22.0	
1	7-3: Compositions of Transformations	22.0	
1	Review and Assessment		
15	Chapter 1: Introducing Geometry Chapter 2: Reasoning in Geometry		
1	1-1: Building Blocks of Geometry	1.0, 4.0	
1	Algebra I Review: Midpoint	17.0	
1	1-2: Poolroom Math	4.0	
1	1-3: What's a Widget?	3.0	
1	2-1: Inductive Reasoning	1.0	
2	2-5: Angle Relationships	1.0, 2.0	
2	2-6: Special Angles on Parallel Lines	1.0, 2.0, 7.0	Parallel lines cut by a Transversal
1	Algebra Skills Review: Slope	Gr. 7 AF 3.3	
2	2-2: Finding the Nth Term	1.0	
1	2-4: Deductive Reasoning	1.0, 3.0	
2	Review and Assessment		

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15	Chapter 4: Discovering & Proving Triangle Problems		
1	1-5: Triangles	3.0, 4.0, 12.0	
1	4-1: Triangle Sum Conjecture	2.0, 12.0, 13.0	
1	4-2: Properties of Isosceles Triangles	13.0, 22.0	
1	Algebra Skills: Solving Equations	4.0 Alg. 1	
1	4-3: Triangle Inequalities	2.0, 6.0	
1	4-4: Are There Congruence Shortcuts	2.0, 4.0, 5.0, 6.0	
2	4-5: Are There Other Congruence Shortcuts	2.0, 4.0, 5.0	
2	4-6: Corresponding Parts of Congruent Triangles	2.0, 4.0, 5.0	
1	4-7: Flowchart Thinking	2.0, 4.0	
2	4-8: Proving Special Triangle Conjectures	1.0, 2.0, 4.0, 5.0, 13.0	
2	Review and Assessment		
1	Benchmark 1 Assessment		
18	Chapter 5: Discovering and Proving Polygon Properties		
1	1-4: Polygons	4.0, 12.0	
2	5-1: Polygon Sum Conjecture	2.0, 3.0, 12.0, 13.0	
1	5-2: Exterior Angles of a Polygon	2.0, 12.0, 13.0	

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2	1-6: Special Quadrilaterals	12.0	
2	5-3: Kite and Trapezoid Properties	2.0, 7.0, 13.0	
1	5-4: Properties of Mid-segments	2.0, 7.0	
1	5-5: Properties of Parallelograms	2.0, 4.0, 7.0, 13.0	The Parallelogram Law
1	Algebra Skills: Writing Linear Equations (Optional)	17.0	
2	5-6: Properties of Special Parallelograms	2.0, 4.0, 7.0, 13.0	
2	5-7: Proving Quadrilateral Properties	1.0, 2.0, 4.0, 7.0, 13.0	
3	Review and Assessment		
16	Chapter 9: Pythagorean Theorem		
2	9-1: The Theorem of Pythagoras	2.0, 14.0	Pythagorean theorem and its converse
2	9-2: The Converse of the Pythagorean Theorem	2.0, 14.0	
2	9-3: Two Special Right Triangles	20.0	Investigating special right triangles
3	9-4: Story Problems	15.0	
2	9-5: Distance in Coordinate Geometry	15.0, 17.0	
2	9-6: Circles and the Pythagorean Theorem	15.0	
3	Review and Assessment		
13	Chapter 8: Area		
1	8.1: Areas of Rectangles and Parallelograms	8.0, 10.0	

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2	8-2: Areas of Triangles, Trapezoid, and Kites	8.0, 10.0	
3	8-3: Area Problems	8.0, 10.0	
1	Algebra Review: Products, Factors, and Quadratic Equations (Optional)	11.0, 14.0 Alg. 1	
2	8-4: Areas of Regular Polygons	8.0, 10.0	
1	8-5: Areas of Circles	8.0, 10.0	
1	8-6: Any Way You Slice It (Optional)	8.0, 10.0	
2	Review and Assessment		
20	Chapter 10: Volume		
1	10-1: The Geometry of Solids	8.0, 9.0	
2	10-2: Volume of the Prisms and Cylinders	8.0, 9.0	
2	10-3: Volume of the Pyramids and Cones	8.0, 9.0	
3	10-4: Volume Problems	8.0, 9.0	
2	8-7: Surface Area (Optional)	8.0, 10.0	
1	10-5: Displacement and Density (Optional)	8.0, 9.0	
2	10-6: Volume of a Sphere	8.0, 9.0	
2	10-7: Surface Area of a Sphere	8.0	
2	Algebra Skills: Solving for Any Variable	4.0 Alg. 1	

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3	Review and Assessment		
1	Benchmark 2 Assessment		
16	Chapter 6: Discovering & Proving Circle Properties		
1	1-7: Circles	4.0	
1	6-1: Tangent Properties	7.0, 21.0	
1	6-2: Chord Properties	2.0, 7.0, 21.0	
2	6-3: Arcs & Angles	7.0, 21.0	Arcs and Angles
2	6-4: Proving Circle Conjectures	1.0, 2.0, 7.0, 21.0	
1	6-5: Circumference/Diameter Ratio	2.0, 7.0, 8.0	
2	6-6: Around the World (applications)	7.0, 8.0	
1	Algebra Skills: Solving Systems of Linear Equations (Optional)	9.0 Alg. 1	
2	Secants and Chords (6-6 pg. 343, 355)	21.0	
1	6-7: Arc Length (Optional)	7.0, 21.0	
2	Review and Assessment		
9	Chapter 3: Using Tools of Geometry		
1	3-1: Duplicating Segments & Angles	16.0	
2	3-2: Construct Perpendicular Bisectors	16.0	

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1	3-3: Construct Perpendicular to a Line	16.0	
1	3-4: Construct Angle Bisectors	16.0	
1	3-5: Construct Parallel Lines	16.0	
1	Algebra Skills Review: Slopes of Parallel and Perpendicular Lines	8.0 Alg. 1	
2	Review and Assessment (Sections on centroid, etc. are optional)		
21	Chapter 11: Similarity		
2	Algebra Skills: Proportion and Reasoning	5.0 Alg. 1	
2	11-1: Similar Polygons	4.0	Congruent and Similar Polygons
3	11-2: Similar Triangles	4.0, 5.0	Investigating Similar Triangles
2	11-3: Indirect Measurement with Similar Triangles	5.0	
2	11-4: Corresponding Parts of Similar Triangles	2.0, 4.0, 5.0	
2	11-5: Proportions with Area	11.0	
2	11-6: Proportions with Volume	11.0	
3	11-7: Proportional Segments Between Parallel Lines	4.0, 5.0, 11.0	
3	Review and Assessment		
14	Chapter 12: Trigonometry		
2	12-1: Trigonometric Ratios	18.0	
3	12-2: Problem Solving with Right Triangles	19.0	

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2	12-3: Law of Sines (Optional)	T 13.0	
2	12-4: Law of Cosines (Optional)	T 13.0	
2	12-5: Problem Solving with Trigonometry	19.0	
3	Review and Assessment		
1	Benchmark 3 Assessment		