

Days	Key Topics	# of Questions on CST	Released CST Questions	CA Standards Addressed & Learning Goals * Bold Standards should be mastered by the end of this unit. Others are addressed, but not yet mastered. * An asterisk after the number indicates a key standard.
1 & 2	Class Business			
3 & 4	Benchmark #1			
5-31 Was two units, but condensed to one	Unit 1: Geometry Basics Definitions Angle Classification Segments Constructions Basic area & perimeter Conditionals & Converses Biconditionals & Definitions Distance & Midpoint	Std. 1: 2 Std. 3: 4 Std. 8: 4 Std. 16: 4 Std. 17: 3 Total: ~17 *not all from this particular unit	1: 1-3 3: 8 8: 35-37 64, 65, 68, 73	1.0* : Students identify & give examples of the three undefined terms of geometry (point, line, plane) * Students identify and classify acute angles, obtuse angles, right angles, vertical angles, supplementary angles, and complementary angles. * Students identify the midpoint, bisector, and perpendicular bisector of a given segment. 16.0*: Student construct with a straight edge and compass an angle bisector, the perpendicular bisector of a segment, a congruent segment, and a congruent angle. 8.0*: Students solve problems involving the area and perimeter of basic geometric shapes. 3.0* : Students construct and judge the validity of a logical argument and give counterexamples to disprove a statement. 17.0*: Students understand the distance & midpoint formulas.
32-44	Unit 2: Parallel & Perpendicular Lines Special angles formed by parallel lines cut by a transversal Construction of a parallel line Finding slopes of parallel & perpendicular lines	Std. 7: 5 2/3 Std. 16: 4 Std. 17: 3 Total: ~12	7, 26, 32, 66, 69	7.0*: Students prove, use, and analyze parallel lines. 16.0* : Students construct a line parallel to a given line through a given point. 17.0*: Students understand the relationships between the slopes of parallel & perpendicular lines.
45-62	Unit 3: Polygon Basics Triangle Basics Quadrilateral Basics Polygon Basics (types, area, perimeter, triangle inequality) Pythagorean Theorem	Std. 6: 1 Std. 7: 5 2/3 Std. 8: 4 Std. 10: 4 Std. 12: 5 Std. 13: 2 Std. 15: 2 Total: ~23	6, 9-12, 24, 25, 27-30, 34, 41-45, 47, 50-59, 61-63, 70, 71	6.0 : Students apply the triangle inequality theorem. 7.0*: Students classify quadrilaterals based on the characteristics of sides, angles, and diagonals. 8.0* & 10.0*: Student calculate perimeter and area of polygons. 12.0* : Students identify and name polygons based on their sides and angles. 12.0* & 13.0 : Students calculate interior and exterior angles, as well as the sums of the angles of polygons. 15.0 : Students solve for the missing side of a right triangle using the Pythagorean Theorem.

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63-68	Unit 4: Triangle Congruence SSS, SAS, ASA, AAS, HL CPCTC	Std. 4: 5 Std. 5: 2 Total: 7	5, 15, 17, 20, 21, 23	4.0*: Students prove basic theorems involving congruence. 5.0: Students prove triangles congruent using SSS, SAS, ASA, AAS, and HL.
69 & 70	Benchmark #2			
71-82	Unit 5: Triangle Similarity AA, SAS, SSS Area & perimeter of similar figures	Std. 4: 5 Std. 5: 2 Total: 7	16, 18, 19, 22, 48	4.0* : Students prove basic theorems involving similarity. 5.0 : Students prove triangles similar using AA, SAS, and SSS. * Students understand the relationships between areas and perimeters of similar figures.
83-94	First Semester Final Review & Exam			
95-106	Unit 6: Right Triangles Trigonometry Special Right Triangles	Std. 18: 3 Std. 19: 3 Total: 6	46, 74-86	18.0* : Students evaluate the sine, cosine, and tangent of a given angle. 19.0* : Students use trigonometric functions to solve for unknown parts of a right triangle. 20.0 : Students know and are able to use angle and side relationships in problems with special right triangles, such as 30°, 60°, and 90° triangles and 45°, 45°, and 90° triangles.
107-115	Unit 7: Circles Area of Circles (review) Area of Sectors Arc length Tangents, secants, chords Arcs & inscribed angles Circles in the coordinate plane	Std. 8: 4 Std. 17: 3 Std. 21: 5 Total: ~12	31, 72, 87-92	8.0* : Students find the circumference and area of a circle, the area of a sector and the length of an arc. 21.0* : Students identify chords, secants, tangents, major arcs, minor arcs, central angles and inscribed angles. * Students calculate the measures of central angles, inscribed angles and arcs, as well as, calculate the lengths of radii, chords, and related segments on a circle. * Students solve problems involving polygons inscribed in a circle, and circumscribed about a circle. 17.0* : Students understand how to find and use the equation of a circle in the coordinate plane.
116, 117	Took two days for Special Right Triangles (forgot during Unit 6)			
118-127 Benchmark #3 : 128, 129 130-131	Unit 8: Three Dimensional Figures Surface Area Volume Changes in Dimensions	Std. 9: 2 Std. 11: 1 Total: 3	33, 38-40, 49	9.0 : Students determine the surface area and volume of three-dimensional figures. 11.0 : Students describe and quantify changes in dimension related to perimeter, area, and volume. (No essential standards)

Geometry

Pacing Guide

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132-141	Unit 9: Transformations Translations Reflections Rotations	3	93-96	22.0*: Students identify and perform translations, reflections, and rotations of line segments and polygons.
142-152	CST Review			
153-156	CST Tests			
157-168	Final Projects			
169-175	Review for Final			
176-180	Finals			