Pacing Chart for Geometry 1-2– Prentice Hall (PH)
Regular Schedule/Block Schedule

2009 - 2010

Dates for Regular (non-block)	Number of Regular /Block Days	Chapter & State Standard (70% or more of CST)	Essential Sections Essential Question Chapter Vocabulary	Hands-On Activities (HOA), Technology Activities (TechA), Geometry Idea Book (GIB), & Investigations	* CST Sections (70% or more of CST)	Assessment Portfolio Student Workbook
9/10 – 9/29	14/7	**Ch 1: Tools of Geometry** 1.0*: Students demonstrate understanding by identifying and giving examples of undefined terms, axioms, theorems, and inductive and deductive reasoning. 3.0*: Students construct and judge the validity of a logical argument and give counterexamples to disprove a statement. 16.0*: Students perform basic constructions with a straightedge and compass, such as angle bisectors, perpendicular bisectors, and the line parallel to a given line through a point off the line. 17.0*: Students prove theorems by using coordinate geometry, including the midpoint of a line segment, the distance formula, and various forms of equations of lines and circles.	1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 1-7 Chapter Review, Chapter Test Essential question: How can points, lines, and planes be used to construct geometric figures? Vocabulary: Prentice Hall GEOMETRY CHAPTER 1 Tools of Geometry	1-1: HOA #1 p.1 1-2: HOA #2 p.2 1-2: HOA #3 p.3 1-6: PH text "Distance in the Coordinate Plane" p.42	1-1(CS 1.0* & 3.0*), 1-2(CS 1.0*), 1-5(CS 16.0*), 1-6(CS 17.0*)	p.3 #3, #4 p.4 #7 p.12 #4 pgs.43-44
9/30 – 10/14	11/5.5	**Ch 2: Reasoning and Proof** 1.0*: Students demonstrate understanding by identifying and giving examples of undefined terms, axioms, theorems, and inductive and deductive reasoning. 2.0*: Students write geometric proofs, including proofs by contradiction 3.0*: Students construct and judge the validity of a logical argument and give counterexamples to disprove a statement. 4.0*: Students prove basic theorems involving congruence and similarity. 13.0: Students prove relationships between angles in polygons by using properties of complementary, supplementary, vertical, and exterior angles.	2-1, 2-2, 2-3, 2-4, 2-5 (supplement definition of linear pair) Chapter Review, Chapter Test Essential question: How is inductive and deductive reasoning used to form conclusions and/or justify their validity? Vocabulary: Prentice Hall GEOMETRY CHAPTER 2 Reasoning and Proofs	2-1: HOA #4 p.4 2-2: GIB "Digit Place Game" 2-3: HOA #5 p.5 2-5: HOA #6 p.6 2-5: TA #39 p.80	2-1(CS 1.0* & 3.0*), 2-2(CS 1.0*) 2-3 (CS 1.0*), 2-4 (CS 1.0*), 2-5 (CS 1.0*, 2.0*. & 4.0*)	p.4 #6, #9 p.12 #1, #2 pgs.45-47 p.64 #1-3

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10/15 – 11/5	16/8	**Ch 3: Parallel and Perpendicular Lines** 1.0*: Students demonstrate understanding by identifying and giving examples of undefined terms, axioms, theorems, and inductive and deductive reasoning. 2.0*: Students write geometric proofs, including proofs by contradiction 3.0*: Students construct and judge the validity of a logical argument and give counterexamples to disprove a statement. 4.0*: Students prove basic theorems involving congruence and similarity. 7.0*: Students prove and use theorems involving the properties of parallel lines cut by a transversal, the properties of quadrilaterals, and the properties of circles. 12.0*: Students find and use measures of sides and of interior and exterior angles of triangles and polygons to classify figures and solve problems. 13.0: Students prove relationships between angles in polygons by using properties of complementary, supplementary, vertical, and exterior angles.	3-1, 3-2, p.130, 3-3, 3-4 (supplement definition of heptagon), p.151, 3-5, 3-6, 3-7 Chapter Review, Chapter Test Essential question: How are angles important in the study of parallel and perpendicular lines and polygons? Vocabulary: Prentice Hall GEOMETRY CHAPTER 3	3-2: HOA #7 p.7 3-3 HOA #8 p.8 3-3 TechA #40 p.81 3-3: PH text "The Sum of Three Angle Measures" p.131 3-4: PH text "The Sum of Polygon Angle Measures" p.145 GIB "Line Design," "Interior Angles"	3-1 & 3-2(CS 2.0*, 4.0*, & 7.0*), 3-3(CS 7.0*, 12.0*, & 13.0), 3-4(CS 12.0*, 13.0), 3-7(CS 16.0)	p.3 #1 p.4 #10 p.5 #11, #13 p.6 #18, #22 p.9 #37, 38 p.12 #3, #5 p.13 #8, #9 p.14 #16, #17 p.15 #27, #28 p.16 #38 p.17 #43, #44 pgs.51-53 #1-10, 14, 19, 20 p.62 #9
11/6 – 11/9	2/1	**Review and First Quarter Exam**	1st Quarter Practice Exam			
11/10		**End of 1st quarter**				
11/10 – 12/2	14/7	**Ch 4: Congruent Triangles** 4.0*: Students prove basic theorems involving congruence and similarity. 5.0: Students prove that triangles are congruent or similar, and they are able to use the concept of corresponding parts of congruent triangles. 12.0*: Students find and use measures of sides and of interior and exterior angles of triangles and polygons to classify figures and solve problems. 13.0: Students prove relationships between angles in polygons by using properties of complementary, supplementary, vertical, and exterior angles.	4-1, 4-2, p.193, 4-3, 4-4, p.209, 4-5, 4-6, 4-7 Chapter Review, Chapter Test Essential question: How can congruency be determined for polygons and if so, what properties about them can be concluded? Vocabulary: Prentice Hall GEOMETRY CHAPTER 4	4-1:HOA #10 p.10 4-2 & 4-3: PH text "Are the Triangles Congruent?" p.186 & 194 GIB: "Exploring Congruent Triangles and Proofs" 4-3: HOA #11 p.11, #12 pgs. 12-13 TechA #41 p.82 4-5: PH text "Isosceles Triangles" pg. 210 HOA #13 p.14 TechA #42 p.83	All sections(CS 4.0*, 5.0, 12.0*, & 13.0)	p.5 #14, #16 p.11 #50 p.14 #18 p.54 #1-3, 5, 7-18 p.65 #9 p.66 #10-13

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2009 - 2010

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12/3 – 12/17	11/5.5	**Ch 5: Relationships Within Triangles** 2.0*: Students write geometric proofs, including proofs by contradiction 3.0*: Students construct and judge the validity of a logical argument and give counterexamples to disprove a statement. 6.0: Students know and are able to use the triangle inequality theorem. 12.0*: Students find and use measures of sides and of interior and exterior angles of triangles and polygons to classify figures and solve problems. 17.0*: Students prove theorems by using coordinate geometry, including the midpoint of a line segment, the distance formula, and various forms of equations of lines and circles.	5-1, 5-2, 5-3, 5-4, p.271 & 272, 5-5 Chapter Review, Chapter Test Essential question: How does indirect reasoning allow you to deduce information about triangle inequalities? Vocabulary: Prentice Hall GEOMETRY CHAPTER 5	5-1: PH text "Midsegments of Triangles" p. 243 5-3: PH text "Paper Folding Bisectors" p.256 TechA #43 p.84 5-5: GIB "Triangle Inequality Theorem"	5-1(CS 17.0*), 5-3 (Enrichment), 5-4(CS 2.0*), 5-5(CS 6.0 & 12.0*)	p.3 #2 p.4 #5 p.5 #12, 15 p.12 #6, 7 p.15 #29 p.21 p.52 #15 p.53 #17 p.67 #16
12/18 – 1/21	14/7	**Ch 6: Quadrilaterals** 7.0*: Students prove and use theorems involving the properties of parallel lines cut by a transversal, the properties of quadrilaterals, and the properties of circles. 12.0*: Students find and use measures of sides and of interior and exterior angles of triangles and polygons to classify figures and solve problems. 13.0: Students prove relationships between angles in polygons by using properties of complementary, supplementary, vertical, and exterior angles. 17.0*: Students prove theorems by using coordinate geometry, including the midpoint of a line segment, the distance formula, and various forms of equations of lines and circles.	6-1, 6-2, 6-3, 6-4, 6-5, 6-6, 6-7 Chapter Review, Chapter Test Essential question: What characteristics make each polygon different? Vocabulary: Prentice Hall GEOMETRY CHAPTER 6	6-1: HOA #18 p.20 TechA: #44 p.85, #45 p.86 6-2: TechA #46 p.87 6-3: PH text "Is it a Parallelogram?" p.303 6-4:TechA #47 p.88	6-1(CS 12.0*), 6-2(CS 7.0*, 13.0), 6-3(CS 7.0*, 12.0*), 6-4 & 6-5(CS 7.0*, 12.0*, 13.0), 6-7(CS 7.0*, 17.0*)	p.6 #20 p.14 #19 p.15 #30 p.16 #31, 32 p.21 #21 p.23 #1-8 p.54 #4 p.61 #3 p.63 #10, 11 p.66 #12, 13 p.67 #15
1/22 – 1/25	2/1	**Cumulative Review**	1st Semester Practice Final	GIB "Geometry Whip"		
1/26 – 1/29	4	**Finals Week, 1st Semester**	1st Semester Final Exam			

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2/1 – 2/25	17/8.9	**Ch 7: Area** 8.0*: Students know, derive, and solve problems involving the perimeter, circumference, area, volume, lateral area, and surface area of common geometric figures. 10.0*: Students compute areas of polygons, including rectangles, scalene triangles, equilateral triangles, rhombi, parallelograms, and trapezoids. 12.0*: Students find and use measures of sides and of interior and exterior angles of triangles and polygons to classify figures and solve problems. 14.0*: Students prove the Pythagorean Theorem. 15.0: Students use the Pythagorean Theorem to determine distance and find missing lengths of sides of right triangles. 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.	7-1, p.355, 7-2, 7-3, 7-4, 7-5, 7-6, 7-7 Chapter Review, Chapter Test Essential question: Using the area formulas for basic geometric figures and the Pythagorean Theorem, how can the area of special quadrilaterals and regular polygons be discovered? Vocabulary: Prentice Hall GEOMETRY CHAPTER 7	7-1: PH text "Area of a Parallelogram-use the cm grid from the Teacher Resources on the LBUSD web page" p. 348 HOA #19 p.21, #20 p.22, TechA #48 p.89 7-2: PH text "The Pythagorean Theorem" p. 356 HOA #21 p.23, #23 p.26 TechA #49 p.90 GIB "Pythagoras and President Garfield" 7-3: GIB "Special Right Triangles" 7-4: PH text "Finding the Area of a Trapezoid" p.373 7-5: GIB "Polygonal Equations" 7-7: PH text "Exploring the Area of a Circle" p. 395 "Exploring Area and Circumference" p.401	7-1(CS 8.0* & 10.0*, 12.0), 7-2(CS 8.0*, 10.0*, 12.0, 14.0* &15.0), 7-3(CS 8.0*, 10.0*, 12.0, 15.0, 20.0), 7-4 & 7-5(CS 8.0* & 10.0*) 7-6 & 7-7(CS 8.0*)	p.4 #8 p.6 #23 p.7 #24-26 p.8 #31, 32 p.9 #41, 43 p.10 #44 p.13 #10, 11 p.14 #20, 21 p.15 #23, 25 p.16 #36 p.17 #39, 45 p.18 #47 p.25 #1-7 p.26 #1-7 p.27 #1-7 p.28 #1-8 p.29 #1-6 p.32 #1-6 p.33 #1-7 p.37 #1-6 p.39 #1-7 p.62 #8 p.73 #1-5 p.74 #6, 8 p.76 #15, 18 p.77 #3, 4, 6-9 p.78 #10 p.83-85

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Regular Schedule/Block Schedule

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2/26 - 3/15	12/6	**Ch 8: Similarity** 4.0*: Students prove basic theorems involving congruence and similarity. 5.0: Students prove that triangles are congruent or similar, and they are able to use the concept of corresponding parts of congruent triangles. 11.0: Students determine how changes in dimensions affect the perimeter, area, and volume of common geometric figures and solids. 12.0*: Students find and use measures of sides and of interior and exterior angles of triangles and polygons to classify figures and solve problems.	8-1, 8-2, 8-3, 8-4, 8-5, 8-6 Chapter Review, Chapter Test Essential question: How can using similar triangles lead to discovering additional relationships within triangles? Vocabulary: Prentice Hall GEOMETRY CHAPTER 8	8-2: HOA #24 p.27 TechA #50 p.91 8-4: PH text "Similarity in Right Triangles" p.439 GIB: "Visualizing the Geometric Mean" 8-5: PH text "Exploring Proportions in Triangles" p. 445	8-3(CS 4.0* & 5.0), 8-4(CS 4.0* & 5.0), 8-5(CS 4.0*, 5.0, 12.0*), 8-6(CS 11.0)	p.7 #27, 28 p.13 #15 p.15 #24 p.18 #50 p.24 #1-6 p.53 #17 pgs.57 & 58 #1-10
3/16 – 3/26	9/4.5	**Ch 9: Right Triangle Trigonometry** 8.0*: Students know, derive, and solve problems involving the perimeter, circumference, area, volume, lateral area, and surface area of common geometric figures. 10.0*: Students compute areas of polygons, including rectangles, scalene triangles, equilateral triangles, rhombi, parallelograms, and trapezoids. 18.0*: Students know the definitions of the basic trigonometric functions defined by the angles of a right triangle. They also know and are able to use elementary relationships between them. For example, $\tan(x) = \sin(x)/\cos(x)$, $(\sin(x))^2 + (\cos(x))^2 = 1$. 19.0: Students use trigonometric functions to solve for an unknown length of a side of a right triangle, given an angle and a length of a side.	9-1, 9-2, 9-3, 9-5 Chapter Review, Chapter Test Essential question: How can the trigonometric ratios be used to find the height and distance of objects that cannot be measured? Vocabulary: Prentice Hall GEOMETRY CHAPTER 9	9-1: PH text "Tangent Ratios" p.470 GIB "Tangent Angle Lab" 9-2: HOA #25 p.289-3: HOA #26 p. 29	9-1(CS 18.0* & 19.0), 9-2(CS18.0* & 19.0), 9-3(CS 19.0) 9-5(CS 8.0* & 10.0*)	p.7 #29 p.8 #30 p.17 #40, 42 p.18 #48 p.30 #1-7 p.31 #1-4
3/29 – 4/1	4/2	Third Quarter Review **Third Quarter Exam**	Third Quarter Practice Exam			
4/14		**End of 3rd quarter**				

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3/30 – 4/21 includes spring break	11/5.5	**Ch 11: Circles** 7.0*: Students prove and use theorems involving the properties of parallel lines cut by a transversal, the properties of quadrilaterals, and the properties of circles. 17.0*: Students prove theorems by using coordinate geometry. Including the midpoint of a line segment, the distance formula, and various forms of equations of lines and circles. 21.0*: Students prove and solve problems regarding relationships among chords, secants, tangents, inscribed angles, and inscribed and circumscribed polygons of circles.	11-1, 11-2, 11-3, 11-4, 11-5 Chapter Review, Chapter Test Essential question: How can properties of circles and of lines and segments that intersect circles help us in the field of transportation, archaeology, photography, and communications? Vocabulary: Prentice Hall GEOMETRY CHAPTER 11	11-1: HOA #31 p.35, #32 p.36 11-4: GIB "Forgotten Theorems"	11-1(CS 7.0*, 21.0*), 11-2(CS 7.0*, 21.0*), 11-3(CS 7.0*, 21.0*), 11-4(CS 7.0*), 11-5(CS 7.0*, 17.0*)	p.9 #42 p.10 #45-49 p.16 #33-35 p.17 #46 p.18 #49 p.34 #1-5 p.35 #1-6 p.36 #1-6 p.38 #1-11 p.74 #7, 9 p.75 #10-14 p.76 #16
4/22 – 4/28	5/2.5	**Ch 10: Surface Area and Volume** 8.0*: Students know, derive, and solve problems involving the perimeter, circumference, area, volume, lateral area, and surface area of common geometric figures. 9.0*: Students compute the volumes and surface areas of prisms, pyramids, cylinders, cones, and spheres; and students commit to memory the formulas for prisms, pyramids, and cylinders. 11.0: Students determine how changes in dimensions affect the perimeter, area, and volume of common geometric figures and solids.	10-1, 10-3, 10-4 Essential question: How can we use the perimeter and area formulas from 2-dimensional figures to find the surface area and volume of 3-dimensional figures? Vocabulary: Prentice Hall GEOMETRY CHAPTER 10	10-3: HOA #28 p.31 10-4: HOA #29 pgs.32-33	10-3 & 10-7(CS 8.0* & 9.0*), 10-8(CS 11.0)	p.8 #33-36 p.13 #12 p.15 #26 p.16 #37 p.86-88
4/26 – 4/30	5	**State Testing**				
4/29 – 5/19	15/7.5	**Ch 10: Surface Area and Volume** 8.0*: Students know, derive, and solve problems involving the perimeter, circumference, area, volume, lateral area, and surface area of common geometric figures. 9.0*: Students compute the volumes and surface areas of prisms, pyramids, cylinders, cones, and spheres; and students commit to memory the formulas for prisms, pyramids, and cylinders. 11.0: Students determine how changes in dimensions affect the perimeter, area, and volume of common geometric figures and solids.	10-5, 10-6, 10-7, 10-8 Chapter Review, Chapter Test Essential question: How can we use the perimeter and area formulas from 2-dimensional figures to find the surface area and volume of 3-dimensional figures?	10-5: TechA #51 p.93 10-7: HOA #30 p.34	10-3 & 10-7(CS 8.0* & 9.0*), 10-8(CS 11.0)	p.8 #33-36 p.13 #12 p.15 #26 p.16 #37 p.86-88

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5/20 – 6/8	13/6.5	**Ch 12: Transformations** 22.0*: Students know the effect of rigid motions on figures in the coordinate plane and space, including rotations, translations, and reflections.	12-1, p.640, 12-2, 12-3, 12-4, 12-5, 12-6, 12-7 Chapter Review, Chapter Test Essential question: Transformations help us to discover relationships between congruent shapes. How does knowledge of transformations allow us to understand symmetry and tessellation? Vocabulary: Prentice Hall GEOMETRY CHAPTER 12	12-3: TechA #52 p.94 12-6: HOA #36 p. 40	All sections(CS 22.0*)	pgs.68-69 #1-15
6/9 – 6/10	2/1	**Cumulative Review**	Review for End-of-Course Exam			
6/11 – 6/16	4	**Finals Week, 2nd Semester**	End-of-Course Exam			