

Geometry Curriculum Map—2009

Month	September/October	October/November	November/December	January
Concepts Introduced	Foundations & Geometric Reasoning <i>6 weeks</i>	Parallel & Perpendicular Lines <i>4 weeks</i>	Properties of Triangles and Triangle Congruency <i>5 weeks</i>	Properties of Polygons <i>3 weeks</i>
Chapters (sections) for Holt	1 *skip 1.7 if doing Geometry Transformation Lesson Link with $\Delta \cong$ chapter) *Add Pythagorean Thm into 1.6 2.1, 2.2 (emphasize converse), 2.3 (only Deductive reasoning vs Inductive), 2.5, 2.6	3	4 *skip 4.7 5.1, 5.4, 5.5, 5.7 (review if completed with 1.6), 5.8	6
Key Standards	1, 16, 8, 17, 22, 3, 2, 14, 15	7, 1, 16, 2, 17	12, 1, 2, 13, 5, 16, 17, 3, 4, 14, 15	16, 12, 7, 17, 15
Lesson Notes & Resources	<ul style="list-style-type: none"> •start patterns w/ inductive reasoning •use 2.5 as an intro to proofs and understanding reasoning—it isn't so important that 2-column proofs are mastered at this point; •Paragraph proofs from 2.7 can be used at a later time—as a break from 2-column after mastery •fill in the blank proofs* 	<ul style="list-style-type: none"> •lls & \perps Lines <u><i>Lesson Link</i></u> •Δ dissection to a square* 	<ul style="list-style-type: none"> •Use proofs to do 4.8 •be sure to define median and altitude (from 5.3) •Transformation <u><i>Lesson Link</i></u> (follow up with rotation and reflection from 1.7) •emphasize special right triangles! They show up a lot on the CST. •check list proofs* •class cooperative proofs* 	<ul style="list-style-type: none"> •use proofs to prove everything possible about each quadrilateral •have students record information on CPM quad family tree*
Constructions	<ul style="list-style-type: none"> •Congruent segment •Segment bisector •Congruent angle •Angle bisector 	<ul style="list-style-type: none"> •Parallel lines (by CA, rhombus) •Perpendicular bisector •Perpendicular Lines 	<ul style="list-style-type: none"> •$\cong \Delta$ by SAS, ASA, AAS •Equilateral triangle •Isosceles triangle •altitude, median, angle bisector of a triangle 	<ul style="list-style-type: none"> •regular polygons •rhombus •kite •any other quadrilateral
Additional Lesson Ideas	<ul style="list-style-type: none"> •syllogism •logic tables •quadratic patterns* •biconditional definitions •tri-square rug game* 	<ul style="list-style-type: none"> •scatter plots* •ll line construction by \perp 	<ul style="list-style-type: none"> •points of concurrency (through constructions and folding activities) •balance centroid* •Δ mobiles* •hinge theorem •graphing irrational #'s (HOLT lab) 	<ul style="list-style-type: none"> •Jeopardy*

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Month	February	March	April	May	June
Concepts Introduced	Similarity <i>3 weeks</i>	Right Triangle Trigonometry <i>4 weeks</i>	Circles <i>4 weeks</i>	Spatial Reasoning (1, 2, & 3 D); r: r²: r³ <i>5 weeks</i>	Transformations <i>2 weeks</i>
Chapters (sections) for Holt	7 *skip 7-6 if pressed for time; otherwise review Transformation Lesson Link from $\Delta \cong$	8.1 – 8.4 *review Special Right Triangles *8.1 can be done with Similarity (Prentice Hall wkshts)	11	9 and 10.4 – 10.8 *9.5 to emphasize r: r ² , dilation and BOTH dimensions change *Vocabulary from 10.1 and 10.3 are also included	12 (to expand on 1.7) 8.5 Law of Sine 9.6 Geometric Probability
Key Standards	1, 5, 12, 7, 16, 8, 11, 12, 17	4, 18, 19	7, 16, 21, 8, 1	12, 8, 10, 11, 9	22
Lesson Notes & Resources	<ul style="list-style-type: none"> •be sure to emphasize problems involving at least r: r²: (if not r³ as well) that are exercises throughout the chapter •Mirror & shadow measuring activity* •Intro activity* •Prentice Hall wkshts 	<ul style="list-style-type: none"> •CPM Clinometers (Rupprecht has class set)—follow-up with mirror & shadow activity 	<ul style="list-style-type: none"> •Tangent Line Lesson Link •Discovering Geometry “crazy” circles 	<ul style="list-style-type: none"> •Use 1.5 as a reminder of areas already learned •CPM Polyhedron* •Prentice Hall wksheets •Volume—What shape is your cracker* 	<ul style="list-style-type: none"> •tesselations
Constructions			Circle through 3 non-collinear points		
Additional Lesson Ideas	<ul style="list-style-type: none"> •golden ratio activity* •Comic grid* •create raisin box* 	<ul style="list-style-type: none"> •vectors •Law of Sines •Law of Cosines 		<ul style="list-style-type: none"> •9.6— Geometric Probability •representing 3D figures* 	