Advanced Geometry Timeline

Quarter	SOL #	Standard	Timeline
1	G.2a, G.3, G.11	**Basic Definitions & Notation** A. Points, Lines & Planes B. Angles C. Constructions: Segments & Angles D. Special Pairs of Angles E. Distance & Midpoint Formulas	7 blocks/14 days
	G.1, G.3	**Deductive Reasoning** A. Inductive vs. Deductive Reasoning (include Laws of Syllogism & Detachment) B. Conditional Statements C. Logic (Truth Tables & Venn Diagrams) D. Prove Segment & Angle Relationships E. Algebraic Proofs	8 blocks/16 days
	G.3, G.4, G.11	**Parallel & Perpendicular Lines** A. Identify Pairs of Lines & Angles B. Using Parallel Lines & Transversals C. Proving Lines Parallel D. Use Slopes of Lines E. Equations of Lines F. Prove Theorems about Perpendicular Lines G. Constructions: $\perp$ from a Point on the Line and a Point Off the Line	7 blocks/14 days
		Total	**9 wks.**
2	G.2a, G.5, G.9	**Congruent Triangles** A. Classifying Triangles (use Coordinate Methods) B. Angles of Triangles C. Congruent Triangles D. Proving Triangle Congruence using SSS, SAS, ASA, AAS & HL E. Isosceles Triangles	7 blocks/14 days
	G.5, G.6	**Relationships in Triangles** A. Medians, Altitudes, $\angle$ Bisectors & $\perp$ Bisectors B. Points of Concurrence C. Triangle Inequality Theorems D. Indirect Proofs	7 blocks/14 days
	G.5, G.14a	**Similar Polygons** A. Ratio, Proportion, Geometric Mean B. Similar Polygons C. Similarity Theorems for Triangles D. Proportionality Theorems	6 blocks/12 days

		Midterm Examinations	2 blocks/ 4 days
		Total	**9 wks.**

3	G.8	**Quadrilaterals** A. Interior & Exterior Angles of Polygons B. Properties of Parallelograms C. Proving Parallelograms D. Rectangles, Rhombuses, & Squares E. Trapezoids, Kites, & Darts	8 blocks/16 days
	G.7	**Right Triangles & Trigonometry** A. Pythagorean Theorem & Its Converse B. Similar Right Triangles C. Special Right Triangles D. Trigonometric Ratios & Applications (including Law of Sines and Law of Cosines)	8 blocks/16 days
	G.10	**Circles** A. Parts of Circles B. Arc and Chord Measures C. Inscribed Angles and Polygons D. Angles formed by Chords, Secants, & Tangents E. Segments formed by Chords, Secants, & Tangents F. Equations of Circles	7 blocks/14 days
		Total	**9 wks.**
4		SOL Exam Review will be incorporated into teacher instruction over the fourth quarter	
	G.2bc, G.9	**Transformations** A. Translations B. Reflections C. Rotations D. Compositions of Transformations E. Tessellations F. Dilations	4 blocks/8 days
	G.12, G.13, G.14b	**Area & Volume** A. Area of Plane Figures B. Volume of Solids C. Orthographic Projections & Creating Isometric Drawings	4 blocks/8 days
		SOL Testing	4 blocks/8 days
	G.9	**Geometry Extensions**	8 blocks/16 days
		Finals Examinations	2 blocks/4 days
		Total	**9 wks.**