Geometry Pacing Guide 2016-2017   Jeffrey Bacholzky (updated 1/11/17)

August/Sept.	October	November	December	January
Points, Lines, and Segments: Lengths of segments Midpoints Distance formula Constructions (2 whole days) **Connecting Reasoning & Proof:** Inductive Reasoning Deductive Reasoning Algebraic Proof Segment Relationships Angle Vocabulary Angle Measures Proof and Logic (5 weeks)	**Parallel and Perpendicular Lines:** Parallel Lines and Transversals Angles and Parallel Lines Slopes of lines Proving lines parallel Construct perpendicular lines Construct parallel lines Parallels and distance (3 weeks)	**Congruent Triangles:** Classifying Triangles Measuring angles in triangles Exploring congruent triangles Proving triangles congruent (SSS, SAS, AAS, ASA, HL) Isosceles and Equilateral Triangles Coordinate Proof Triangle Relationships (3 weeks)	**Exploring Quadrilaterals:** Angles of Polygons Parallelograms Tests for Parallelograms Rectangles Rhombi and Squares Trapezoids and Kites (3 weeks)	**Proportions and Similarity:** Ratios and Proportions Similar Polygons Similar Triangles Parallel Lines & Proportional Parts Parts of Similar Triangles Scale Drawings **Using Square Roots** (3 weeks)
Standards G.CO.1 G.MG.1 G.CO.1 G.CO.12 G.MG.3 G.CO.9 G.CO.12	*Standards* G.CO.1 G.CO.12 G.CO.9 G.GPE.5 GMG.3	*Standards* G.CO.12 G.CO.10 G.CO.7 G.SRT.5 G.CO.5 G.GPE.4	*Standards* G.MG.1 G.CO.11 G.GPE.4 G.CO.12 G.MG.3	*Standards* G.MG.3 G.SRT.2 G.SRT.4 G.SRT.5 G.GPE.5

February	March	April	May/June	
Right Triangles and Trigonometry: Geometric Mean The Pythagorean Theorem Special Right Triangles Trigonometry Angles of Elevation and Depression The Law of Sines and Cosines (3 weeks)	**Transformations and Symmetry:** Reflections Translations Rotations Symmetry Dilations (2 weeks) **Circles:** Circles and circumference Measuring angles and arcs Inscribed angles Tangents, Secants & Angle Measures Special segments in a circle Equations of circles (1 week, extend into April)	**Circles:** Circles and circumference Measuring angles and arcs Inscribed angles Tangents, Secants & Angle Measures Special segments in a circle Equations of circles (2 weeks) **Area of Polygons and Circles:** Area of parallelograms and triangles Area of trapezoids, rhombi, and kites Area of circles and sectors Area of similar figures (1 week, extend into May)	**Area of Polygons and Circles:** Area of parallelograms and triangles Area of trapezoids, rhombi, and kites Area of circles and sectors Area of similar figures (2 weeks) **Surface Area and Volume:** Surface area of prisms and cylinders Surface area of pyramids and cones Volume of prisms and cylinders Volume of pyramids and cones Surface area and volume of spheres (3 weeks)	
Standards G.SRT.4 G.SRT.5 G.CO.10 G.SRT.8 G.MG.3 G.SRT.6 G.SRT.7 G.SRT.8 G.SRT.9 G.SRT.10	*Standards* G.CO.4 G.CO.5 G.CO.2 G.CO.3 G.CO.12 G.SRT.1	*Standards* G.CO.1 G.C.1 G.C.2 G.C.5 G.C.3 G.GPE.1 G.GPE.6	*Standards* G.GPE.7 G.MG.3 G.MG.2 G.C.5M G.GND.1 G.MG.1 G.GMD.4 G.GMD.1 G.GMD.3	