Instructional Flow – Unit 3 Polygons

3.1	**Symmetry in Polygons**
	• equilateral, equiangular, and regular polygons
	• reflectional and rotational symmetry

3.2	**Properties of Quadrilaterals**
	• special quadrilaterals
	• inheritance of properties

3.3	**Parallel Lines and Transversals**
	• special angle relationships for two parallel lines cut by a transversal

3.4	**Proving That Lines are Parallel**
	• two-column and paragraph proof

3.5	**The Triangle Sum Theorem**
	• the Parallel Postulate
	• proof and application of the Triangle Sum Theorem

11.5	*Euclid Unparalleled (Optional Enrichment)*
	• *non-Euclidean geometries: spherical and hyperbolic*

IG	**Relationships Between Angles and Sides of a Triangle**
	• relationship between the order of magnitude of lengths of the sides and the order of magnitude of the measures of the angles

3.6	**Angles in Polygons**
	• sum of interior angle measures
	• measure of each interior angle of a regular polygon
	• sum of exterior angle measures

3.7	**Midsegments of Triangles and Trapezoids**
	• indirect measurement

3.8	**Analyzing Polygons Using Coordinates**
	• slopes of parallel and perpendicular lines
	• midpoint formula