

**SCHOOL DISTRICT U-46**  
**Pacing Guide for Geometry and Geometry with Support (GWS)**

<b>Quarter 1 Geometric Structure</b>	<b>Quarter 2 Congruence</b>	<b>Quarter 3 Similarity</b>	<b>Quarter 4 Two- and Three- Dimensional Measurement</b>
<u>Chapter 1: Tools of Geometry</u> -1.1 Points, Lines, and Planes -1.2 Linear Measure and Precision -1.3 Distance and Midpoints -1.4 Angle Measure -1.5 Angle Relationship -1.6 Two Dimensional Figures -1.7 Three-Dimensional Figures	<u>Chapter 4: Congruent Triangles</u> -4.1 Classifying Triangles -4.2 Angles of Triangles -4.3 Congruent Triangles -4.4 Proving Congruence (SSS, SAS) -4.5 Proving Congruence (ASA, AAS) p.242-243 HL -4.6 Isosceles Triangles -4.7 Triangles and Coordinate Proof	<u>Chapter 7: Proportions and Similarity</u> -7.1 Proportions -7.2 Similar Polygons -7.3 Similar Triangles -7.4 Parallel Lines and Proportional Parts -7.5 Parts of Similar Triangles	<u>Chapter 11: Areas of Polygons &amp; Circles</u> -11.1 Areas of Parallelograms -11.2 Areas of Triangles, Trapezoids, and Rhombi -11.3 Area of Regular Polygons and Circles -11.5 Areas of Sectors -11.4 Areas of Composite Figures
<u>Chapter 2: Reasoning and Proof</u> -2.1 Inductive Reasoning and Conjecture -2.2 Logic -2.3 Conditional Statements -2.5 Postulates and Paragraph Proofs -2.6 Algebraic Proof -2.7/2.8 Proving Segment Relationships/ Proving Angle Relationships	<u>Chapter 5: Relationships in Triangles</u> -5.1 Bisectors, Medians, and Altitudes -5.2 Inequalities and Triangles -5.4 The Triangle Inequality	<u>Chapter 8: Right Triangles &amp; Trigonometry</u> -8.2 The Pythagorean Theorem and its Converse -8.1 Geometric Mean -8.3 Special Right Triangles -8.4 Trigonometry -8.5 Angles of Elevation and Depression	<u>Chapter 12: Extending Surface Area</u> -12.1 Representations of 3-D Figures -12.2 Surface Area of Prisms -12.3 Surface Area of Cylinders -12.4 Surface Area of Pyramids -12.5 Surface Area of Cones -12.6 Surface Area of Spheres
<u>Chapter 3: Parallel &amp; Perpendicular Lines</u> -3.1 Parallel Lines and Transversals -3.2 Angles and Parallel Lines -3.5 Proving Lines Parallel -3.3 Slopes of Lines	<u>Chapter 6: Quadrilaterals</u> -6.1 Angles of Polygons -6.2 Parallelograms -6.3 Tests for Parallelograms -6.4 Rectangles -6.5 Rhombi and Squares -6.6 Trapezoids -6.7 Coordinate Proof and Quadrilaterals	<u>Chapter 10: Circles</u> -10.1 Circles and Circumference -10.2 Measuring Angles and Arcs -10.3 Arcs and Chords -10.4 Inscribed Angles -10.5 Tangents -10.6 Secants, Tangents, and Angle Measure	<u>Chapter 13: Extending Volume</u> -13.1 Volumes of Prisms and Cylinders -13.2 Volumes of Pyramids and Cones -13.3 Volumes of Spheres
<b>Optional Sections:</b> -2.4 Deductive Reasoning -3.4 Equations of Lines -3.6 Perpendiculars and Distance	<b>Optional Sections:</b> -5.3 Indirect Proof -5.5 Inequalities Involving Two Triangles -6.3(extend) Kites	<b>Optional Sections:</b> -8.6 The Law of Sines -8.7 The Law of Cosines -9.1 Reflections -9.2 Translations -9.3 Rotations -9.4 Tessellations -9.5 Dilations -9.6 Vectors -10.5 extend -10.7 Special Segments in a Circle -10.8 Equations of Circles	<b>Optional Sections:</b> -11.5 Geometric Probability -13.4 Congruent and Similar Solids -13.5 Coordinates in Space