

Math Grade 4 Unit 8
Curriculum Unit Planning Template
Canterbury Public Schools

Subject	Math
Grade Level	4
Unit Title	Properties of Two- D dimensional Shapes
Unit Goals	<p>Students classify triangles and quadrilaterals based on the properties of their side lengths and angles, and learn about lines of symmetry in two-dimensional figures. Use their understanding of these attributes to solve problems, including problems involving perimeter and area.</p> <p>Section A Side Lengths, Angles and Lines of Symmetry Classify triangles including right triangles ,parallelograms, rectangles, rhombuses, and squares based on the properties of their side lengths and angles. Identify and draw lines of symmetry in two-dimensional figures</p> <p>Section B Reason about Attributes to solve problems Solve problems involving unknown side lengths, perimeter,area, and angle measurement using the known attributes and properties of two-dimensional shapes.</p>
Pacing (# of weeks)	3 - 4 weeks
Standards	4.G.A.1, 4.G.A.2, 4.G.A.3. 4.MD.C,4.NBT.B.5, 4.NF.B.3.c, 4.NF.B.4
Content/Conceptual Knowledge (know)	Different ways of looking at two-dimensional shapes: by the number of sides, lengths of sides ,size of angles, presence of parallel or perpendicular lines and symmetry- identify names of figures
Skills (be able to do)	<p>Apply insights to describe and reason about characteristics of shapes Classify two-dimensional shapes based on the presence or absence of parallels and perpendicular lines, or the presence or absence of angles of a specified size. Explain classification of shapes and figures Find the perimeter of shapes where the side lengths are all given. Find the perimeter where the side lengths are not explicitly given but can be deduced based on information about the shapes. Find any unknown side length.</p> <p>Practice performing operations on whole numbers and fractions</p>

Essential Questions	What is symmetry? How do you recognize shapes using side lengths and angles?
Enduring Understandings	Figures are identified by their attributes. (lengths of sides, size of angles, presence of parallel lines and symmetry) Symmetry identifies a shape that is folded in half/the sides mirror each other
Vocabulary	Line symmetry, parallelograms, perpendicular
Common Learning Experiences	Solve problems using dimensions of figures Lesson 3 Activity 1, Quadrilateral Hunt Lesson 8, Activity 2, Lin's Design
Assessments	Solve problems about measurements, end of unit, check points and cool-downs
Resources	Geometric shapes, drawings, nets, protractors, rulers, index cards, Patty Paper, Shape Cards, Perfect Matches, Two Symmetrical figures,
Strategies	Folding papers to identify symmetry