Math Grade 3 Unit 7
Curriculum Unit Planning Template
Canterbury Public Schools

Subject	Math
Grade Level	3
Unit Title	Two Dimensional Shapes and Perimeter
Unit Goals	Students reason about shapes and their attributes with a focus on quadrilaterals. Solve problems involving the perimeter and area of shapes Section A Reason with shapes Section B What is Perimeter? Find the perimeter of two dimensional shapes, including when all or some side lengths are given. Section C Expanding on Perimeter Solve problems involving perimeter and area, in and out of context Section D Design with Perimeter and Area Apply geometric understanding to solve problems
Pacing (# of weeks)	3 weeks
Standards	3.G.A.1, 3.NBT.A.3, 3.OA.C.7 3.MD.D, 3.MD.D.8, 3.NBT.A.2,3.OA.C.7 3.MD.D.8, 3.OA.C.7, 3.OA.D.8
Content/Conceptual Knowledge (know)	The meaning of perimeter and find the perimeter Some quadrilaterals are not squares, rhombuses, or rectangles because they don't have the defining attributes of these shapes
Skills (be able to do)	Develop language that is increasingly more precise to describe and categorize shapes. Classify broader categories of shapes into more specific sub-groups based on their attributes. Solve problems and apply what they have learned about geometric attributes of shapes,perimeter, and area to design a park, a print pattern and a robot. Analyze shapes with equal size intervals marked on their sides or shapes drawn on dot paper. Quantify the distance around the shape by counting the intervals or adding the number of units on each side. Find the perimeter by recognizing sides that are the same length and using multiplication. Find the perimeter of shapes that have different shapes but the same perimeter.

	Solve problems in context Analyze the area and perimeter of shapes. Draw rectangles with the same perimeter, and different areas, and rectangles with the same area and different perimeters
Essential Questions	What is the difference between area and perimeter? How do you measure them? What makes, or gives a shape a name?
Enduring Understandings	Perimeter measures length or distance and area measures the amount of space covered by a shape Triangles and quadrilaterals can be classified based on their sides and their angles A shape can have more than one name if it has the attributes that define different types of shapes
Vocabulary	Area, perimeter, angle in a shape, right angle in a shape, corner, square, triangle
Common Learning Experiences	Lesson 4 Activity 1 What Makes These Shapes So? Lesson 8 Activity 1 Ways to find Perimeter Lesson 11, activity 2, Same Perimeter, different Area
Assessments	Use and apply knowledge of shapes, perimeter, etc to build a park, print pattern and a robot . Solve problems Create shapes with same and different perimeters, create different shapes with same perimeters Create a park - find the area and perimeter of the park create a robot whose parts are rectangles with a certain perimeter
Resources	Paper clips, string, bags or envelopes, counters, folders, paper clips
Strategies	Experiment with non standard measures Measure with standard measures Identify and build with shapes other than squares