

Math Grade 3 Unit 2
Curriculum Unit Planning Template
Canterbury Public Schools

Subject	Math
Grade Level	3
Unit Title	Area and Multiplication
Unit Goals	<p>Students learn about area concepts and relate area to multiplication and addition</p> <p>Section A Concepts of Area Measurement Describe areas as the number of unit squares that cover a plane figure without gaps or overlaps Measure the area of rectangles by counting unit squares</p> <p>Section B Relate Area to Multiplication Explain why the area of a rectangle can be determined by multiplying the side lengths Solve problems involving the area of rectangles</p> <p>Section C Find Area of Figures Find the area of figures composed of rectangles</p>
Pacing (# of weeks)	About 3 - 4 weeks
Standards	3 MD.C.5, 3.MD.C.5a, 3.MD.C.6, 3.OA.A.2 3.MD.C.6, 3.MD.C.7b, 3.OA.B.5,3.OA.D.9 3.MD.C.5,3.MD.C.6,3.MD.C.7.d, 3.NBT.A.2
Content/Conceptual Knowledge (know)	<p>Area is the amount a shape covers Make sense of another attribute of shapes: a measure of how much a shape covers.</p> <p>The area of a flat figure is the number of square units that cover it without gaps or overlaps</p> <p>A rectangle tiled with squares forms and array with rows and columns as equal sized groups</p> <p>Connect the area of rectangles to multiplication</p> <p>Develop a sense of area as the amount of space that is covered by a shape</p>

Skills (be able to do)	<p>Compare precisely by tiling shapes with pattern blocks and multiplication facts Students go from seeing or making the rows and columns to using multiplication facts to solve.</p> <p>Find the area of figures of non-overlapping rectangles Decompose figures and use multiplication reasoning to find area (additive nature of area) Use understanding of rectangles to find missing side lengths in figures composed of rectangles</p>
Essential Questions	<p>How is measuring area using arrays helpful in determining total area? How is measuring a flat figure using rectangles a good strategy for finding area?</p>
Enduring Understandings	<p>The area of a flat figure is the number of square units that cover it without gaps or overlaps The area of rectangles is a product of two numbers that describe the equal groups.</p>
Vocabulary	<p>Arrays, area, sides, vertices, rectangles, columns, rows, standard units, Inches, feet, centimeters, meters</p>
Common Learning Experiences	<p>Lesson 1, Activity 1, compare shapes Lesson 5, Activity 1, Match Expressions and Area Lesson 12, Activity 2, Find the Rectangle Use squares to measure area, card sort, Match Expressions and Areas, Use square tiles Same Rectangle, Different Units, New Bed and Desk</p>
Assessments	<p>check points, end of unit , daily cool downs</p>
Resources	<p>Tiles, pattern blocks, inch tiles, patty paper, rulers, yardsticks, grid paper,</p>