

EnVision Math Unit Lesson Plan			Common Core Standards: 4.MD.2; 4.MD.3; 4.MD.4	
Grade Level: Fourth Grade		Topic 15: Solving Measurement Problems		
Instructional Emphasis: Measurement and Data			Essential Questions:	
Big Ideas: <ul style="list-style-type: none"> 15-1: Some problems can be solved by applying the formula for the perimeter of a rectangle or the formula for the area of a rectangle. 15-2: Some measurement problems can be represented and solved using models. 15-3: Making change is often easiest by counting from the smaller amount to the larger amount. 15-4: Some data can be represented using a line plot and the line plot can be used to answer certain questions about the data. 15-5: Some problems can be solved by breaking apart or changing the problem into simpler ones. Recording information in a table can help one understand and solve some problems. 			<ul style="list-style-type: none"> How can perimeter and area formulas be used to solve problems? (15-1) How can the relationship between quantities in a measurement problem be represented using a diagram that can help to solve the problem? (15-2) How can change be given by counting up from one amount of money to another? (15-3) How do you multiply 2-digit by 2-digit numbers? (15-4) How can you solve a simpler problem and make a table? (15-5) 	
Lesson 1: Solving Perimeter and Area Problems	Lesson 2: Solving Measurement Problems	Lesson 3: Solving Problems Involving Money	Lesson 4: Solving Problems Involving Line Plots	Lesson 5: Problem Solving: Solve a Simpler Problem and Make a Table
Vocabulary: Objective: Students will use the formulas for the perimeter and area of rectangles to solve real-world problems. Materials: Content Reviewed: Division; Multiplication; Subtraction with Large Numbers; Model Fractions; Decimal and Fractions; Fractions and Whole Numbers Standard: 4.MD.3	Vocabulary: Objective: Students use diagrams to show data and analyze how the quantities are related to solve real-world measurement problems. Materials: Content Reviewed: Mental Multiplication; Measurement; Round Whole Numbers; Perimeter; Area; Number Patterns Standard: 4.MD.2	Vocabulary: Objective: Students will solve real-world problems that involve money and giving change by counting. Materials: Bills and Coins (Teaching Tool 19) Content Reviewed: Multiply Decimals; Multiply; Comparing Money Amounts; Count Money; Equivalent Fractions; Division Standard: 4.MD.2	Vocabulary: line plot Objective: Students construct line plots using given data and use the line plot to answer questions about the data set. Materials: Recording Sheet: Line Plot Data (Teaching Tool 33) Content Reviewed: Patterns; Division; Subtract Fractions; Solve Measurement Problems Standard: 4.MD.4	Vocabulary: Objective: Students will break a problem into smaller, more manageable pieces and find a pattern to fit. Materials: Content Reviewed: Convert Measures; Quadrilaterals; Multiplication; Perimeter; Rounding; Patterns; Simplify Fractions; Area Standard: 4.MD.2
Assessment	Assessment	Assessment	Assessment	Assessment
Topic 15 Introduction Daily Common Core Review	Daily Common Core Review Problem-Based Interactive	Daily Common Core Review Problem-Based Interactive	Daily Common Core Review Problem-Based Interactive	Daily Common Core Review Problem-Based Interactive

Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework	Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework	Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework	Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework	Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework Topic 15 Assessment
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