Grade Level: Fourth Grad	e Topic 8: Developing Fl Numbers	uency: Multiplying by 2-Digit	4.NBT.5; 4.OA.3		
Instructional Emphasis: Number and Operations in Base Ten			Essential Questions:	Essential Questions:	
Big Ideas: 8-1: The expanded expanded algorithm 8-2: Making an arrausing an expanded a extension of the algorithm expanded a extension of the algorithm expanded and extension of the algorithm expanded and expanded and extension of the algorithm expanded and expanded algorithm.	algorithm for multiplying by two-dig for multiplying with one-digit num y with place-value blocks provides algorithm. Igorithm for multiplying a two-digit orithm for multiplying multi-digit no nultiplication algorithm is a shortcu rather than showing all partial prodes answer to one problem/question is	git numbers is just an extension of bers. a way to visualize and find product. number by a multiple of 10 is just umbers by a one-digit number. t for the expanded algorithm. ucts.	 How can arrays h numbers? (8-1) How can you reconnumbers? (8-2) How can you find number and a munumber and a munumbers? (8-4) How do you multinumbers? (8-4) How do you use to question to answer 	elp you multiply 2-digit ord multiplication of 2-digit a product of a 2-digit altiple of ten? (8-3) ply 2-digit by 2-digit he answer from one er a second question? (8-5)	
Lesson 1:	Lesson 2:	Lesson 3:	Lesson 4:	Lesson 5:	
Arrays and Multiplying 2-	Arrays and an Expanded	Multiplying 2-Digit Numbers	Multiplying 2-Digit Numbers	Problem Solving:	
Digit Numbers	Algorithm	by Multiples of 10	by 2-Digit Numbers	Two-Question Problems	
Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	
Objective: Students will use arrays to multiply two-digit numbers by two-digit numbers to find the product. Materials: 1/4-inch Grid Paper (Teaching Tool 5) Colored Pencils or Crayons Colored Chalk Content Reviewed: Addition; Problem Solving; Comparing Numbers; Division; Addition Subtraction	Objective: Students will use an expanded algorithm to multiply two-digit numbers by two-digit numbers to find the product. Materials: Centimeter Grid Paper (Teaching Tool 4) Colored Pencils or Crayons Colored Chalk Content Reviewed: Ordering Numbers; Multiplication; Mental Math; Division; Patterns	Objective: Students will use grids and patterns to multiply 2-digit numbers and multiples of 10. Materials: ¼-in Grid Paper (Teaching Tool 5) (3 sheets per student) Tape Content Reviewed: Partial Products; Number Patterns; Estimation; Multiplication; Problem Solving	Objective: Students will use partial products to multiply 2-digit numbers by 2-digit numbers and find the products. Materials: Content Reviewed: Place Value; Estimating Differences; Estimating Products; Multiplication; Problem Solving Standard: 4.NBT.5	Objective: Students will solve two- question problems. Materials: Content Reviewed: Choose the Operation; Model Division; Ordering Numbers; Multiplication; Mental Math; Multiple- Step Problem Standard: 4.NBT.5; 4.OA.3	
Standard:	Standard:	Standard:			
4.NBT.5	4.NBT.5	4.NBT.5			
Assessment	Assessment	Assessment	Assessment	Assessment	
Topic 8 Introduction Daily Common Core Review Problem-Based Interactive	Daily Common Core Review Problem-Based Interactive Learning	Daily Common Core Review Problem-Based Interactive Learning	Daily Common Core Review Problem-Based Interactive Learning	Daily Common Core Review Problem-Based Interactive Learning	

Common Core Standards:

EnVision Math Unit Lesson Plan

Learning
Guided Practice
Independent Practice
Problem Solving
Quick Check Master
Center Activity
Reteaching, Practice, and
Enrichment Homework

Guided Practice
Independent Practice
Problem Solving
Quick Check Master
Center Activity
Reteaching, Practice, and
Enrichment Homework

Guided Practice
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Topic 8 Assessment