	EnVision Math Unit Lesson	Common Core Standa	Common Core Standards:			
Grade Level: Fourth Grad	le Topic 5: Number Sens Numbers	e: Multiplying by 1-Digit	4.NBT.3; 4.NBT.5; 4	4.NBT.3; 4.NBT.5; 4.OA.3		
Instructional Emphasis:	Number and Operations in E	Essential Questions:	 How can you use arrays to multiply by 10 and 100? (5-1) What place-value patterns can be seen when you multiply 1-digit numbers by multiples of 10 and 100? (5-2) How can you break apart arrays to help you multiply with greater numbers? (5-3) What are some ways to multiply mentally? (5-4) How can you use rounding to estimate when you multiply? (5-5) 			
 5-2: Basic facts and or 100. 5-3: Making an arra A 2-digit by 1-digit fact and a 1-digit no added to give the pitch. 5-4: There is more multiplication calculation is easy to 5-5: Rounding is on 5-6: Answers to provin different ways. The state of the s	than one way to do a mental calcul ations mentally involve changing th	and 100? (5-1) What place-value you multiply 1-di 10 and 100? (5-2) How can you bree multiply with gre What are some w (5-4) How can you use you multiply? (5-done) How do you know				
Lesson 1:	Lesson 2:	Lesson 3:	Lesson 4:	Lesson 5:		
Arrays and Multiplying by 10 and 100	Multiplying by Multiples of 10 and 100	Breaking Apart to Multiply	Using Mental Math to Multiply	Using Rounding to Estimate		
Vocabulary:	Vocabulary:	Vocabulary: partial products	Vocabulary: compensation	Vocabulary:		
Objective: Students will use arrays to multiply by 10 and 100. Materials: Place-Value Blocks (Teaching Tool 8) ¼ inch Grid Paper (Teaching Tool 5) Content Reviewed: Place Value; Customary Measurement; Fraction Models; Estimation; Comparing Fractions	Objective: Students will use basic multiplication facts and number patterns to multiply by multiples of 10 and 100. Materials: Multiplication Recording Sheet (Teaching Tool 29) Content Reviewed: Multiplication; Mental Math; Identify Fractions; Count Money; Perimeter	Objective: Students will break apart numbers and use arrays to multiply 2-digit by 1-digit numbers. Materials: Place-Value Blocks (Teaching Tool 8) (10 tens, 15 ones per group) Content Reviewed: Number Patterns; Multiplication; Fractions;	Objective: Students will use compensation to multiply numbers mentally. Materials: Content Reviewed: Mental Math; Multiplication; Equal Parts; Addition; Comparing Whole Numbers Standard: 4.NBT.5; 4.NBT.3;	Objective: Students will use rounding to estimate solutions to multiplication problems. Materials: Rounding Recording Sheet (Teaching Tool 30) Content Reviewed: Problem Solving; Division; Fraction Models; Mental Math; Multiplication and Division		
Standard: 4.NBT.5	Standard: 4.NBT.5	Subtraction; Problem Solving Standard: 4 NRT 5	4.OA.3	Fact Families Standard: 4.NBT.5; 4.NBT.3		

4.NBT.5

Assessment	Assessment	Assessment	Assessment	Assessment
Topic 5 Introduction Daily Common Core Review Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework Lesson 6:	Daily Common Core Review Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework	Daily Common Core Review Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework	Daily Common Core Review Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework	Daily Common Core Review Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework
Problem Solving: Reasonableness				
Vocabulary:				
Objective: Students will check for reasonableness by making sure their calculations answer the questions asked and by using estimation to make sure the calculation was performed correctly. Materials: Content Reviewed: Addition; Fraction Models; Subtraction; Division Facts; Estimation Standard: 4.OA.3; 4.NBT.3; 4.NBT.5				
Assessment				
Daily Common Core Review Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity				

Reteaching, Practice, and		
Enrichment Homework		
Topic 5 Assessment		