	EnVision Math Unit Lesson	Common Core Standar	rds:		
Grade Level: Fourth Grade Topic 7: Number Sense: Multiplying by 2-Digit Numbers			4.NBT.5; 4.NBT.3; 4	4.NBT.5; 4.NBT.3; 4.OA.3	
Instructional Emphasis: Number and Operations in Base Ten			Essential Questions:	Essential Questions:	
<ul> <li>7-2: Basic facts and number by a multiple</li> <li>7-3: Products can been reasy to multiply meren</li> <li>7-5: Some problems</li> </ul>	e estimated by replacing numbers we estimated by replacing numbers we	number by 10? (7  How can you multi 2)  How can you use products? (7-3)  How can you use estimate products	<ul> <li>How can arrays help you multiply a 2-digit number by 10? (7-1)</li> <li>How can you multiply by multiples of 10? (7-2)</li> <li>How can you use rounding to estimate products? (7-3)</li> <li>How can you use compatible numbers to estimate products? (7-4)</li> <li>What is the hidden question or questions?</li> </ul>		
Lesson 1: Arrays and Multiplying 2- Digit Numbers by Multiples of 10	Lesson 2: Using Mental Math to Multiply by 2-Digit Numbers	Lesson 3: Using Rounding to Estimate	Lesson 4: Using Compatible Numbers to Estimate	Lesson 5: Problem Solving: Multiple-Step Problems	
Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	
Objective: Students will use arrays to multiply 2-digit numbers by multiples by 10.  Materials: 1/4-inch Grid Paper (Teaching Tool 5) Place-Value Blocks (or Teaching Tool 8) (20 less, 80 ones per pair) Colored Pencils or Crayons 1/4-inch Grid Paper Transparency Colored Markers  Content Reviewed: Rounding; Multiplication; Number Patterns; Subtraction  Standard: 4.NBT.5	Objective: Students will discover and use patterns to multiply by multiples of 10.  Materials: Calculators (per group) Colored Chalk  Content Reviewed: Multiplication; Division; Addition and Subtraction; Number Patterns  Standard: 4.NBT.5; 4.OA.3	Objective: Students will use rounding to estimate solutions to multiplication problems involving 2-digit numbers.  Materials: Content Reviewed: Comparing Numbers; Multiplication; Estimating Sums; Addition  Standard: 4.NBT.3; 4.OA.3	Compatible numbers  Objective: Students will use compatible numbers and rounding to estimate solutions to multiplication problems involving two 2- digit numbers.  Materials:  Content Reviewed: Estimating Products; Multiplication; Rounding; Multiplication and Addition; Rounding; Multiplication and Subtraction  Standard: 4.NBT.5; 4.NBT.3; 4.OA.3	Objective: Identify and answer hidden questions to solve multi-step problems with operations.  Materials:  Content Reviewed: Estimating Products; Multiplication; Division; Addition; Multiplication; Rounding  Standard: 4.NBT.5; 4.OA.3	

Assessment	Assessment	Assessment	Assessment	Assessment
Topic 7 Introduction	Daily Common Core Review			
Daily Common Core Review	Problem-Based Interactive	Problem-Based Interactive	Problem-Based Interactive	Problem-Based Interactive
Problem-Based Interactive	Learning	Learning	Learning	Learning
Learning	Guided Practice	Guided Practice	Guided Practice	Guided Practice
Guided Practice	Independent Practice	Independent Practice	Independent Practice	Independent Practice
Independent Practice	Problem Solving	Problem Solving	Problem Solving	Problem Solving
Problem Solving	Quick Check Master	Quick Check Master	Quick Check Master	Quick Check Master
Quick Check Master	Center Activity	Center Activity	Center Activity	Center Activity
Center Activity	Reteaching, Practice, and	Reteaching, Practice, and	Reteaching, Practice, and	Reteaching, Practice, and
Reteaching, Practice, and	Enrichment Homework	Enrichment Homework	Enrichment Homework	Enrichment Homework
Enrichment Homework				Topic 7 Assessment