EnVision Math Unit Lesson Plan			Common Core Standards:		
Grade Level: Fourth Grad	e Topic 1: Multiplication and Facts	and Division: Meanings 4	.OA.1; 4.OA.2; 4.OA.3; 4.	.OA.4; 4.OA.5	
Instructional Emphasis: Operations and Algebraic Thinking			Essential Questions:		
Big Ideas: • 1-1: Some real-world problems involving joining or separating equal groups or comparison can be solved using multiplication. Repeated addition and arrays involve joining equal groups and are two ways to think about multiplication. • 1-2: There are patterns in the products for multiplication facts with factors of 2, 5, and 9. • 1-3: Two numbers can be multiplied in any order. The product of any number and 0 is zero. The product of any number an 1 is that number. • 1-4: Basic multiplication facts with 3, 4, 6, 7, or 8 as a factor can be found by breaking apart the unknown fact into known facts. • 1-5: Some problems can be solved by identifying elements that repeat in a predictable way. • 1-6: Some real-world problems involving joining or separating equal groups or comparison can be solved using division. Sharing and repeated subtraction involve separating equal groups and are two ways to think about division. • 1-7, 1-9: Multiplication and division have an inverse relationship. The inverse relationship between multiplication and division can be used to find division facts; every division fact has a related multiplication fact. • 1-8: Any number (except 0) divided by itself is equal to 1. Any number divided by 1 is that number. Zero divided by any number (except 0) is zero. Zero cannot be a divisor. • 1-10: Information in a problem can often be shown using a picture or diagram and used to understand and solve the problem. Some problems can be solved by			 How can we use arrays to understand multiplication (1-1) What patterns can help you remember multiplication facts for 2s and 5s? (1-2) What happens when you multiply two numbers and switch the order of the factors? What happens when 		
Lesson 1: Meanings of Multiplication	Lesson 2: Patterns for Facts	Lesson 3: Multiplication Properties	Lesson 4: 3, 4, 6, 7, and 8 as Factors	Lesson 5: Problem Solving: Look for a Pattern	
Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	
array; product; factors	multiple	Commutative Property of Multiplication; Zero Property	Distributive Property	Objective:	
Objective:	Objective:	of Multiplication; Identity	Objective:	Students will recognize	
Students recognize	Use patterns to find	Property of Multiplication	Students will use the	patterns and be able to	
multiplication as repeated addition of equal groups	products with factors of 2, 5, and 9.	Objective:	Distributive Property to find products of the factors of 3,	continue the pattern.	
		Use multiplication properties		Materials:	
comparisons.	Materials:	to simplify computations.	apart problems into simpler		
	Hundred Chart (Teaching	co sp.ii y compacacionsi	problems.	Content Reviewed:	
Materials:	Tool 11)	Materials:		Subtraction;	
	,	T C ()	1	NA 11: 1: 1: 0	

Index Cards (per pair)

Content Reviewed:

Materials:

Centimeter Grid Paper

(Teaching Tool 4)

Multiplication; Compare

and Order; Estimation;

Problem Solving;

Centimeter Grid Paper

Content Reviewed:

Place Value; Addition;

(Teaching Tool 4)

Place-Value Blocks

(Teaching Tool 8) Crayons Colored Pencils or Markers Content Reviewed:	Compare and Order; Subtraction; Patterns; Problem Solving Standard:	Rounding and Estimating; Subtraction; Multiplication; Patterns; Place Value; Multiples of Ten	Colored Pencils Colored Chalk Content Reviewed: Distributive Property;	Multiples of 10 Standard: 4.OA.3; 4.OA.5
Relating Multiplication and Addition; Subtraction; Problem Solving; Place Value; Compare and Order; Compare Whole Numbers; Division; Patterns Standard:	4.OA.2	Standard: 4.OA.1	Algebra; Multiplication; Compare Whole Numbers; Measurement Conversions; Geometry; Place Value Standard: 4.OA.4	
4.OA.1; 4.OA.2	Accomment	Accoment	Accoment	Accordant
Assessment	Assessment	Assessment	Assessment	Assessment
Topic 1 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	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
Lesson 6: Meanings of Division	Lesson 7: Relating Multiplication and Division	Lesson 8: Special Quotients	Lesson 9: Using Multiplication Facts to Find Division Facts	Lesson 10: Problem Solving: Draw a Picture and Write an Equation
Vocabulary:	Vocabulary: inverse operations; fact	Vocabulary:	Vocabulary:	Vocabulary:
Objective:	family	Objective:	Objective:	Objective:
Students use and draw		Students use multiplication	Students will identify	Students will draw
models to solve division	Objective:	facts with 0 and 1 to learn	multiplication facts related	pictures to problem solve
problems.	Students use arrays to write and complete multiplication	about special division rules with 0 and 1.	to division facts in order to solve division problems.	multiplication situations and use their pictures to
Materials:	and division fact families.	Makadala	Makadala	write number sentences.
Counters (or Teaching Tool 12)	Materials: Counters (or Teaching Tool	Materials: Content Reviewed:	Materials: Counters (or Teaching Tool 12)	Materials:
Content Reviewed:	12) (2 per group)	Addition; Subtraction;	Centimeter Grid Paper	Content Reviewed:
Addition; Subtraction; Multiplication Facts;	Content Reviewed:	Estimation; Compare Whole Numbers	(Teaching Tool 4)	Place Value; Multiplication Facts; Subtraction; Two-

Division; Problem Solving Standard: 4.OA.2	Division; Arrays; Subtraction; Compare and Order; Multiplication Facts Standard: 4.OA.1	Standard: 4.OA.2; 4.OA.3	Content Reviewed: Multiplication; Fact Families; Multiplication Facts; Problem Solving Standard: 4.OA.2; 4.OA.3	Dimensional Figures; Fractions; Addition; Order Whole Numbers Standard: 4.OA.2; 4.OA.3
Assessment	Assessment	Assessment	Assessment	Assessment
Daily Common Core Review	Daily Common Core Review	Daily Common Core Review	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 1 Assessment