

EnVision Math Unit Lesson Plan			Common Core Standards: 4.NF.4; 4.NF.4.a; 4.NF.4.b; 3.NF.4.c; 4.NF.5; 4.NF.6; 4.NF.7; 4.MD.1; 4.MD.2	
Grade Level: Fourth Grade		Topic 13: Extending Fraction Concepts	Essential Questions:	
Instructional Emphasis: Number and Operations-Fractions			<ul style="list-style-type: none"> How can you describe a fraction using a unit fraction? (13-1) How can you find the product of a fraction multiplied by a whole number? (13-2) When do you need to multiply a fraction by a whole number? (13-3) How can you write a fraction as a decimal? (13-4) How can you locate points for decimals on a number line? (13-5) How can you use equivalent fractions to change a fraction to a decimal? (13-6) What are some ways to represent decimals? (13-7) How do you compare decimals? (13-8) How are decimals related to money? (13-9) How can you draw a picture to solve a problem? (13-10) 	
Big Ideas: <ul style="list-style-type: none"> 13-1: Physical representations and symbols can be used to develop the understanding that $a/b = a \times 1/b$. 13-2: Models can be used to find the product of a whole number and a fraction. 13-3: To multiply a fraction by a whole number, one must multiply the whole number by the numerator of the fraction and then divided the product by the denominator of the fraction. 13-4: A decimal is another name for a fraction. 13-5: Each fraction, mixed number, and decimal can be associated with a unique point on the number line. 13-6: Every fraction can be represented by an infinite number of equivalent fractions, but each fraction is represented by the same decimal or an equivalent form. 13-7: Decimal numeration is just an extension of whole number numeration. 13-8: Place value can be used to compare and order numbers. 13-9: Relationships among dollars, dimes, and pennies are a good model for decimal numeration. 13-10: Information in a problem can often be shown using a picture or diagram to understand and solve the problem. 				
Lesson 1: Fractions as Multiples of Unit Fractions: Using Models	Lesson 2: Multiplying a Fraction by a Whole Number: Using Models	Lesson 3: Multiplying a Fraction by a Whole Number: Using Symbols	Lesson 4: Fractions and Decimals	Lesson 5: Fractions and Decimals on the Number Line
Vocabulary: unit fraction Objective: Students will use unit fractions and multiplication to describe fractions that are multiples of the unit fractions. Materials: Paper Strips (2 per group) Scissors Content Reviewed: Write Numbers; Equations; Comparing Fractions; Compare and Order	Vocabulary: Objective: Students will multiply a fraction by a whole number using models. Materials: Fraction Strips (or Teaching Tool 15) (1 per Student) Content Reviewed: Place Value; Round Whole Numbers; Multiplication; Compare Whole Numbers; Number Lines; Multiplication; Write Whole Numbers	Vocabulary: Objective: Students will multiply a whole number and a fraction to solve problems. Materials: Content Reviewed: Number Sentences; Write Whole Numbers; Subtraction; Compare Whole Numbers; Geometry; Order Fractions; Round Whole Numbers; Add Three Numbers	Vocabulary: Objective: Students will understand how to write fractions as decimals and decimals as fractions. Materials: Decimal Models (Teaching Tool 17) Content Reviewed: Number Sentences; Add Fractions; Multiplication; Measurement Comparisons; Estimation; Fact Patterns	Vocabulary: Objective: Students will learn to locate and name fractions and decimals on a number line. Materials: Number Lines (Teaching Tool 14) Content Reviewed: Fact Families; Compare Fractions; Number Sentences; Subtraction; Problem Solving; Multiplication

Numbers; Problem Solving; Measurement Standard: 4.NF.4.a	Standard: 4.NF.4.b; 4.NF.4	Standard: 4.NF.4.c; 4.NF.4; 4.NF.4.b	Standard: 4.NF.6; 4.NF.5	Standard: 4.NF.5; 4.NF.6
Assessment	Assessment	Assessment	Assessment	Assessment
Topic 13 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: Equivalent Fractions and Decimals	Lesson 7: Decimal Place Value	Lesson 8: Comparing and Ordering Decimals	Lesson 9: Using Money to Understand Decimals	Lesson 10: Problem Solving: Draw a Picture
Vocabulary: Objective: Students will understand how to use equivalent fractions to write fractions as decimals. Materials: Decimal Models (Teaching Tool 17) Content Reviewed: Round Whole Numbers; Equivalent Fractions; Factors; Multiples; Ordering Mixed Numbers Standard: 4.NF.6; 4.NF.5	Vocabulary: Objective: Students will use models and place-value charts to represent decimals to hundredths. They will read and write decimals in expanded, standard, and word form. Materials: Recording Sheet: Decimal Place Value (Teaching Tool 31) Content Reviewed: Place Value; Money; Symmetry; Patterns; Measurement; Expanded Form Standard: 4.NF.7	Vocabulary: Objective: Students will use models and place-value charts to compare decimals to hundredths. They will use greater than and less than symbols to order decimal numbers. Materials: Recording Sheet: Decimal Place-Value Table (Teaching Tool 32) Content Reviewed: Write Numbers; Subtraction; Geometric Shapes; Compare and Estimate Numbers; Addition Standard: 4.NF.7	Vocabulary: tenth; hundredth; decimal point Objective: Students will use place-value charts to read, write, and compare decimals in tenths and hundredths using money. Materials: Bill and Coins (Teaching Tool 19); Place-Value Charts (Teaching Tool 10) Content Reviewed: Area; Estimation; Money; Place Value; Order Whole Numbers Standard: 4.MD.2; 4.NF.7	Vocabulary: Objective: Students will solve problems using the strategy Draw a Picture. Materials: Rulers (Teaching Tool 20 or 21) Content Reviewed: Fact Families; Customary Units; Expressions; Area; Division; Compare Fractions Standard: 4.NF.6; 4.MD.1; 4.MD.2

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