

EnVision Math Unit Lesson Plan			Common Core Standards:	
Grade Level: Fourth Grade		Topic 12: Adding and Subtracting Fractions and Mixed Numbers with Like Denominators	4.NF.3; 4.NF.3.a; 4.NF.3.b; 3.NF.3.c; 4.NF.3.d	
Instructional Emphasis: Number and Operations-Fractions			Essential Questions:	
<div>Big Ideas:</div> <div><ul style="list-style-type: none">12-1: A model can be used to add or subtract two or more fractions.12-2, 12-3, 12-4: When adding or subtracting fractions with like denominators, you are adding or subtracting portions of the same size. So, you can add or subtract the numerators without changing the denominators.12-5: Positive fractions can be added or subtracted by locating a fraction on the number line and then moving to the right to add or to the left to subtract.12-6: Fractional amounts greater than 1 can be represented using a whole number and a fraction. Whole number amounts can be represented as fractions. When the numerator and denominator are equal, the fraction equals 1.12-7: Models can be used to show different ways of adding and subtracting mixed numbers.12-8: One way to add mixed numbers is to add the fractional parts and then add the whole number parts. Sometimes whole numbers or fractions need to be renamed.12-9: One way to subtract mixed numbers is to subtract the fractional parts and then subtract the whole number parts. Sometimes whole numbers or fractions need to be renamed.12-10: A fractional amount can be decomposed into a sum of fractions in more than one way.12-11: Information in a problem can often be shown using a diagram and used to solve the problem. Some problems can be solved by writing and completing a number sentence or equation.</div>			<div><ul style="list-style-type: none">How can you use fraction strips to add fractions? (12-1)How can you add fractions with like denominators? (12-2)How can you use fraction strips to subtract fractions? (12-3)How do you subtract fractions with like denominators? (12-4)How can you use a number line to add and subtract fractions? (12-5)How are mixed numbers and improper fractions related? (12-6)How do you use models to add mixed numbers? (12-7)How can you add mixed numbers? (12-8)How can you subtract mixed numbers? (12-9)How can we use addition to represent a fraction in a variety of ways? (12-10)What operation is needed to solve a problem with fractions? (12-11)</div>	
Lesson 1: Modeling Addition of Fractions	Lesson 2: Adding Fractions with Like Denominators	Lesson 3: Modeling Subtraction of Fractions	Lesson 4: Subtracting Fractions with Like Denominators	Lesson 5: Adding and Subtracting on the Number Line
Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:
Objective: Students will use models to add fractions with like denominators.	Objective: Students use computational procedures to add fractions with like denominators and solve problems.	Objective: Students will use models to subtract fractions with like denominators.	Objective: Students use computational procedures to subtract fractions with like denominators and solve problems.	Objective: Students use the number line to add and subtract fractions with like denominators.
Materials: Fraction Models: Strips (or Teaching Tool 15) Colored Pencils Scissors	Materials:	Materials: Fraction Models: Strips (or Teaching Tool 15) (per pair) Scissors (per pair)	Materials:	Materials:
Content Reviewed: Generalize Patterns; Prime Numbers; Equivalent	Content Reviewed: Add Fractions; Fractions in Simplest Form; Add Fractions; Algebra; Multiple-Step Problem	Content Reviewed: Add Fractions; Algebra; Perimeter; Reasonable Estimates	Content Reviewed: Subtract Fractions; Add Fractions; Write Expressions	Content Reviewed: Subtract Fractions; Compare Fractions; Fractions on a Number Line; Subtract Fractions; Number Patterns

Fractions; Multiple-Step Problem; Number Patterns with Fractions Standard: 4.NF.3; 4.NF.3.a	Standard: 4.NF.3.a; 4.NF.3.d	Standard: 4.NF.3.a; 4.NF.3.d	Standard: 4.NF.3.a; 4.NF.3.d	Standard: 4.NF.3.d; 4.NF.3.a
Assessment	Assessment	Assessment	Assessment	Assessment
Topic 12 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: Improper Fractions and Mixed Numbers	Lesson 7: Modeling Addition and Subtraction of Mixed Numbers	Lesson 8: Adding Mixed Numbers	Lesson 9: Subtracting Mixed Numbers	Lesson 10: Decomposing and Composing Fractions
Vocabulary: mixed number; improper fraction Objective: Students will identify and write mixed numbers as improper fractions and improper fractions as mixed numbers. Materials: Fraction Models: Strips (Teaching Tool 15) Fraction Models: Circles (Teaching Tool 16) (per pair) Content Reviewed: Fraction Models; Estimation; Division; Subtraction; Place Value;	Vocabulary: Objective: Students will use models to add and subtract mixed numbers. Materials: Fraction Models: Strips (Teaching Tool 15) (per pair) Content Reviewed: Multiplying by Multiples of 10; Describe Division; Subtract Fractions on a Number Line; Addition of Fractions; Draw a Picture and Write an Equation Standard: 4.NF.3.c; 4.NF.3.b	Vocabulary: Objective: Students will use models and computational procedures to add mixed numbers. Materials: Fraction Models: Strips (Teaching Tool 15) Scissors (per pair) Content Reviewed: Subtract Fractions with Like Denominators; Subtract Fractions with Like Denominators; Multiple-Step Problem; Describe Fractions Standard: 4.NF.3.c	Vocabulary: Objective: Students will use models and computational procedures to subtract mixed numbers. Materials: Fraction Models: Strips (Teaching Tool 15) Scissors (per pair) Content Reviewed: Number Patterns; Add Mixed Numbers; Find Equivalent Fractions; Subtraction; Reasonableness Standard: 4.NF.3.c	Vocabulary: Objective: Students decompose fractions and represent them as compositions of fractions in a variety of ways. Materials: Fraction Models: Strips (Teaching Tool 15) Content Reviewed: Equivalent Fractions; Subtraction; Mixed Numbers; Compare and Order Fractions; Fraction Concepts; Multiplication Standard: 4.NF.3.b; 4.NF.3.d

Multiplication				
Standard: 4.NF.3.c; 4.NF.3.b				
Assessment	Assessment	Assessment	Assessment	Assessment
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Lesson 11: Problem Solving: Draw a Picture and Write an Equation				
Vocabulary: Objective: Students will draw a picture and write an equation to solve a problem. Materials: Content Reviewed: Division; Subtract Fractions with Like Denominators; Compare Fractions; Estimation; Multiplication Properties Standard: 4.NF.3.d; 4.NF.3.a				
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 12 Assessment				
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