

## **Unit 3: Fraction Comparison, Addition and Subtraction (5 Weeks)**

Priority Standards: 4.NF.A.2, 4.NF.B.3, 4.MD.2

Supporting Standards: 4.OA.3, 4.NF.1, 4.MD.1

### **Pre-Assessment**

#### **RWE Introduction & Task 1 (1 day)**

#### **Topic 1: Fraction Equivalence (3 days)**

I can explain why a fraction is equivalent to another fraction by using visual fraction models.

I can recognize and generate equivalent fractions.

#### **Topic 2: Compare Fractions with Unlike Numerators and Unlike Denominators (5 days)**

I can recognize that comparisons are only valid when the two fractions refer to the same whole.

I can compare fractions to a benchmark fraction.

I can compare two fractions with different numerators or different denominators.

I can record the results of comparing fractions with symbols  $>$ ,  $<$ , or  $=$ , and justify my conclusions.

#### **Real World Experience Task 2**

#### **Topic 3: Fraction Addition & Subtraction (2 days)**

I can understand addition and subtraction of fractions as joining and separating parts referring to the same whole.

I can represent fractions as the sum of unit fractions using pictures.

I can represent a fraction as the sum of unit fractions using a number line.

I can represent a fraction as the sum of unit fractions using an area model.

I can decompose fractions different ways into the sum of fractions with the same denominator.

I can record fraction decomposition with an equation. ( $\frac{3}{8} = \frac{2}{8} + \frac{1}{8}$  or  $\frac{3}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$ )

#### **Topic 4: Mixed Number Addition & Subtraction (4 days)**

I can add mixed numbers with like denominators by replacing mixed numbers with an equivalent fraction.

I can add mixed numbers with like denominators by using properties of operations.

I can add mixed numbers with like denominators by using the relationship between addition and subtraction.

I can subtract mixed numbers with like denominators by replacing mixed numbers with an equivalent fraction.

I can subtract mixed numbers with like denominators by using properties of operations.

I can subtract mixed numbers with like denominators by using the relationship between addition and subtraction.

#### **Real World Experience Task 3**

#### **Topic 5: Solve Fraction Word Problems (4 days)**

I can determine which operation is needed to solve a fraction word problem.

I can solve addition word problems involving fractions referring to the same whole and like denominators.

I can solve subtraction word problems involving fractions referring to the same whole and like denominators.

#### **Real World Experience Task 4 & 5**

#### **Post Assessment and Buffer Week (5 days)**