# Unit 3b-Understand Addition And Subtraction Of Fractions 

Content Area: Math<br>Course(s): Math 4<br>Time Period: Marking Period 3 Length:<br>MP3 Topic 9-1 to 9-10<br>Status:<br>Published

## Essential Questions

- How do you add and subtract fractions and mixed numbers with like denominators?
- How can fractions be added and subtracted on a number line?


## Big Ideas

- Add and Subtract Fractions: Students will use visual models and procedures for adding fractions with like denominators to connect subtracting fractions with like denominators.
- Mixed Numbers: Students will extend their knowledge of adding and subtracting fractions with like denominators to mixed numbers.
- Word Problems Involving Fractions: Students apply their knowledge of fraction addition and subtraction to solve real-world problems.


## Technology Integration

8.2.5.ED.3: Follow step by step directions to assemble a product or solve a problem, using appropriate tools to accomplish the task.

## Activity:

Students will work independently in the IXL program to answer questions about adding and subtracting fractions. The specific skills in IXL related to this standard are Q1-Q9. The program will track students progress and mastery of these skills.

## Enduring Understandings

Number and Operations-Fractions
4.NF.B. 3 [M] Understand a fraction $\mathrm{a} / \mathrm{b}$ with $\mathrm{a}>1$ as a sum of fractions $1 / \mathrm{b}$.
4.NF.B.3a [M] Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.
4.NF.B.3b [M] Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model.
4.NF.B.3c [M] Add and subtract mixed numbers with like denominators, e.g., by replacing each mixed number with an equivalent fraction, and/or by using properties of operations and the relationship between addition and subtraction.
4.NF.B.3d [M] Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators, e.g., by using visual fraction models and equations to represent the problem.

## Mathematical Practices Focus

4. Model with mathematics.
