

# Unit 3b-Understand Addition And Subtraction Of Fractions

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

## STEM/STEAM

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REFLECTION/REDESIGN: Students will reflect on a collaborative game activity. Then, they will make adjustments to the game and have the opportunity to play again with those changes in place.

## Essential Questions

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- 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

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- **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.

## CSDT Technology Integration

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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**

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### **Number and Operations—Fractions**

4.NF.B.3 [M] Understand a fraction  $a/b$  with  $a > 1$  as a sum of fractions  $1/b$ .

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**

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4. Model with mathematics.