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

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

- 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.

CSDT 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 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

4. Model with mathematics.