MP3b-Understand Addition And Subtraction Of Fractions

Content Area: **Mathematics**
Course(s): **Math 4 Resource Room**
Time Period: **Marking Period 3**
Length: **MP3 Topic 9 9-1 to 9-11**
Status: **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

- **Fractions and Mixed Numbers:** Students come to understand fraction addition and subtraction with like denominators.
- **Fraction Addition:** Students add fractions with like denominators.
- **Word Problems Involving Fractions:** Students apply their knowledge of fraction addition and subtraction to solve problems with like denominators.

CSDT Technology Integration

8.1.5.A.1 Select and use the appropriate digital tools and resources to accomplish a variety of tasks including solving problems.

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 - Q14. The program will track student progress on 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.