## Fifth Grade Math Learning Progression

**Vocabulary:** numerator, denominator, common fraction, simplify, least common multiple, greatest common factor, improper fraction, mixed number, equivalent fraction

Adding common fractions with like denominators / Subtracting common fractions with like denominators

> **"I can** add and subtract common fractions that have the same denominators."

> Formative Assessments: Pattern Blocks Fraction Strips Fraction Circles/Squares Cuisenaire Rods Base 10 Blocks Pictured examples Double-Nine Dominoes

Adding / Subtracting common fractions with unlike denominators / Applying LCM and GCF for common denominators to simplify work

> "I can add and subtract common fractions with unlike denominators by finding the least common multiple and the greatest common factor to change the fractions to a common denominator."

Formative Assessments: Pattern Blocks Fraction Strips Fraction Circles/Squares Cuisenaire Rods Tangrams

Understanding and explaining how to change an improper fraction to a mixed number and vice versa

> "I can explain what an improper fraction is and how to change it into a mixed number, or explain what a mixed number is and how to change it to an improper fraction."

Adding /

Subtracting

improper

fractions and

mixed

numbers

Formative Assessments: Double-Nine Dominoes Pattern Blocks Fraction Strips Fraction Circles/Squares Cuisenaire Rods Coins Pictured examples Simplifying the sums and differences from adding and subtracting mixed numbers and improper fractions

**"I can** add and subtract improper fractions or mixed numbers by first rewriting them with a common denominator."

Formative Assessments: Double-Nine Dominoes Pattern Blocks Fraction Strips Fraction Circles/Squares Cuisenaire Rods Tangrams Coins Pictured examples 5.2.E Fluently and accurately, add and subtract fractions, including mixed numbers. CCSSM 5.NF.1

"I can take my answers from adding and subtracting improper fractions or mixed numbers and rewriting the sums or differences in simplest terms."

Formative Assessments: Double-Nine Dominoes Pattern Blocks Fraction Strips Fraction Circles/Squares Cuisenaire Rods Tangrams Coins Pictured examples



Math & Science Collaborative Inquiry Project