



## Fractions 3-4 Online Syllabus

### Course Goals

#### 1 Fraction Fluency

Students analyze fractions through numeric representations, pictorial representations, comparisons, ordering, and operations.

#### 2 Skill Mastery

Students learn critical skills to analyze fractions while being given ample practice time and number of problems to master the content.

#### 3 Feedback

Students receive feedback from instructor modeling and problem solving as well as through online quizzes and games.

### Course Topics

#### 1 Modeling Fractions and Mixed Numbers

Students define fraction vocabulary and practice representing fractions in pictorial form. Students also calculate fractions of two-digit numbers.

#### 2 Converting Fractions to Decimals

Students practice converting fractions to decimals.

#### 3 Equivalent Fractions

Students calculate equivalent fractions.

#### 4 Simplifying Fractions

Students find the GCF of the numerator and denominator to simplify fractions.

#### 5 Comparing Fractions

Students compare fractions in numeric and pictorial representations using greater than, less than, and equal to signs.

#### 6 Improper Fractions and Mixed Numbers

Students convert between improper fractions and mixed numbers. Students also compare them using the greater than, less than, and equal to signs.

#### 7 Ordering Fractions

Students order fractions in ascending and descending order.

#### 8 Adding and Subtracting Fractions

Students add and subtract fractions with like- and unlike-denominators.

#### 9 Multiplying and Dividing Fractions

Students multiply and divide fractions and mixed numbers.

*Updated on 6/4/2020*