Prep for Math and Dosage

This course covers the topics outlined below. You can customize the scope and sequence of this course to meet your curricular needs.

Curriculum (112 topics)

- Whole Numbers (36 topics)
  - Place Value (2 topics)
    ◊ Whole number place value: Problem type 1
    ◊ Numeral translation: Problem type 1
  - Adding and Subtracting Whole Numbers (11 topics)
    ◊ Adding a 2−digit number and a 1−digit number with regrouping
    ◊ Adding 2−digit numbers without regrouping
    ◊ Adding 2−digit numbers with regrouping a ten
    ◊ Adding with regrouping a hundred
    ◊ Addition of large numbers
    ◊ Subtracting a 1−digit number from a 2−digit number
    ◊ Subtraction of 2−digit numbers without regrouping
    ◊ Subtraction of 2−digit numbers with regrouping
    ◊ Adding or subtracting 10, 100, or 1000
    ◊ Subtraction with multiple regrouping steps
    ◊ Subtraction and regrouping with zeros
  - Multiplying and Dividing Whole Numbers (16 topics)
    ◊ One−digit multiplication
    ◊ Multiplication by 10, 100, and 1000
    ◊ Multiplying 2−digit and 1−digit numbers without regrouping
    ◊ Multiplying with regrouping
    ◊ Introduction to multiplication of large numbers
    ◊ Multiplication with trailing zeros: Problem type 1
    ◊ Multiplication with trailing zeros: Problem type 2
    ◊ Multiplication of large numbers
    ◊ Division facts
    ◊ Division without regrouping
    ◊ Division with regrouping
    ◊ Division with trailing zeros: Problem type 1
    ◊ Division with trailing zeros: Problem type 2
    ◊ Division with remainder involving quotients with intermediate zeros: Problem type 2
    ◊ Quotient with remainder: 1−digit divisor, 2−digit dividend
    ◊ Quotient with remainder: 1−digit divisor, 3−digit dividend
- Rounding (2 topics)
  ◊ Rounding to tens or hundreds
  ◊ Rounding to thousands, ten thousands, or hundred thousands
- Factors and Divisibility Rules (5 topics)
  ◊ Divisibility rules for 2, 5, and 10
  ◊ Divisibility rules for 3 and 9
  ◊ Prime numbers
• Fractions and Mixed Numbers (32 topics)
  ◆ Equivalent Fractions (5 topics)
    ◆ Introduction to fractions
    ◆ Understanding equivalent fractions
    ◆ Equivalent fractions
    ◆ Introduction to simplifying a fraction
    ◆ Simplifying a fraction
  ◆ Mixed Numbers (3 topics)
    ◆ Writing a mixed number and an improper fraction for a shaded region
    ◆ Writing an improper fraction as a mixed number
    ◆ Writing a mixed number as an improper fraction
  ◆ Ordering and Plotting Fractions (5 topics)
    ◆ Ordering fractions with the same denominator
    ◆ Ordering fractions with the same numerator
    ◆ Using a common denominator to order fractions
    ◆ Fractional position on a number line
    ◆ Plotting fractions on a number line
  ◆ Adding and Subtracting Fractions and Mixed Numbers (8 topics)
    ◆ Addition or subtraction of fractions with the same denominator
    ◆ Addition or subtraction of unit fractions
    ◆ Introduction to addition or subtraction of fractions with different denominators
    ◆ Addition or subtraction of fractions with different denominators
    ◆ Addition or subtraction of mixed numbers with the same denominator
    ◆ Mixed number addition with the same denominator and renaming
    ◆ Mixed number subtraction with the same denominator and renaming
    ◆ Addition or subtraction of mixed numbers with different denominators
  ◆ Multiplying and Dividing Fractions and Mixed Numbers (11 topics)
    ◆ Product of a unit fraction and a whole number
    ◆ Product of a fraction and a whole number: Problem type 1
    ◆ Introduction to fraction multiplication
    ◆ Fraction multiplication
    ◆ The reciprocal of a number
    ◆ Division involving a whole number and a fraction
    ◆ Fraction division
    ◆ Complex fraction without variables: Problem type 1
    ◆ Mixed number multiplication: Problem type 1
    ◆ Mixed number multiplication: Problem type 2
    ◆ Mixed number division
• Decimals (23 topics)
  ◆ Decimal Place Value (6 topics)
    ◆ Writing a decimal and a fraction for a shaded region
    ◆ Decimal place value: Tenths and hundredths
    ◆ Decimal place value: Hundreds to ten thousandths
    ◆ Rounding decimals
    ◆ Introduction to ordering decimals
    ◆ Ordering decimals
  ◆ Converting between Decimals and Fractions (7 topics)
    ◆ Converting a decimal to a fraction: Basic
    ◆ Converting a decimal to a proper fraction in simplest form: Advanced
    ◆ Converting a fraction with a denominator of 10, 100, or 1000 to a decimal
    ◆ Converting a fraction to a terminating decimal
◊ Converting a fraction to a repeating decimal
◊ Converting a decimal to a mixed number
◊ Converting a mixed number to a decimal

◆ Adding and Subtracting Decimals (3 topics)
  ◊ Addition of aligned decimals
  ◊ Decimal addition with 3 numbers
  ◊ Subtraction of aligned decimals

◆ Multiplying and Dividing Decimals (7 topics)
  ◊ Multiplication of a decimal by a power of ten
  ◊ Multiplying a decimal by a whole number
  ◊ Decimal multiplication: Problem type 1
  ◊ Division of a decimal by a power of ten
  ◊ Division of a decimal by a whole number
  ◊ Division of a decimal by a 2-digit decimal
  ◊ Word problem with powers of ten

◆ Percents, Ratios, and Proportions (7 topics)
  ◆ Percents (4 topics)
    ◊ Finding the percentage of a grid that is shaded
    ◊ Converting between percentages and decimals
    ◊ Converting a percentage to a fraction in simplest form
    ◊ Converting a fraction to a percentage: Denominator of 20, 25, or 50
  ◆ Ratios (1 topics)
    ◊ Writing a ratio as a percentage
  ◆ Proportions (2 topics)
    ◊ Writing a ratio proportion as a fraction proportion
    ◊ Finding the missing value in a proportion

◆ Measurements and Conversions (14 topics)
  ◆ Customary Measurements (8 topics)
    ◊ Choosing U.S. Customary measurement units
    ◊ U.S. Customary unit conversion with whole number values
    ◊ Conversions involving measurements in feet and inches
    ◊ Adding measurements in feet and inches
    ◊ U.S. Customary unit conversion with whole number values: Two-step conversion
    ◊ U.S. Customary unit conversion with mixed number values: One-step conversion
    ◊ U.S. Customary unit conversion with mixed number values: Two-step conversion
    ◊ U.S. Customary area unit conversion with whole number values
  ◆ Metric System (4 topics)
    ◊ Metric distance conversion with whole number values
    ◊ Metric mass or volume conversion with whole number values
    ◊ Metric distance conversion with decimal values
    ◊ Metric conversion with decimal values: Two-step problem

◆ Converting Units (1 topics)
  ◊ Converting units

◆ Temperature (1 topics)
  ◊ Converting between temperatures in Fahrenheit and Celsius