

Mathematics Curriculum Guide

Grades 3 – 6

East Ramapo Central School District

Curriculum: Eureka Math² New York Next Generation

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Grade 3

Grade 4

Grade 5

Grade 6

This guide provides an overview of the six learning modules your child will experience during the school year. Each module builds on the last, developing a deep and lasting understanding of mathematics.

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Grade 4 Mathematics

A Story of Fractional Units

Grade 4 is a year of expansion — students extend their number sense far beyond whole numbers. They work with very large numbers up to 1,000,000, master multi-digit multiplication and division, and dive deep into fractions and decimals. Geometry and measurement are woven throughout, giving students opportunities to apply their growing number skills in new contexts. By year's end, students are equipped with powerful tools for reasoning and problem solving.

What Your Child Will Learn This Year — Six Modules

Module 1

Place Value Concepts for Addition and Subtraction

Students explore numbers up to 1,000,000, reading and writing them in multiple forms and understanding that each digit represents 10 times the value of the digit to its right. They round multi-digit numbers, add and subtract using the standard algorithm, and apply these skills to solve multi-step word problems. Metric measurement conversions extend and deepen place value understanding.

Key Concepts: Place value up to 1,000,000 • Rounding multi-digit numbers • Adding and subtracting large numbers • Metric measurement conversion

Module 2

Place Value Concepts for Multiplication and Division

Students build a strong foundation for multi-digit multiplication and division. They explore factors, multiples, prime and composite numbers, and patterns in number sequences. They multiply and divide two- and three-digit numbers by one-digit numbers using area models, place value strategies, and the distributive property. Students also solve measurement problems involving perimeter and area.

Key Concepts: Factors, multiples, prime and composite numbers • Multiplying and dividing multi-digit numbers • Area models and the distributive property • Perimeter and area problem solving

Module 3

Multiplication and Division of Multi-Digit Numbers

Students extend multiplication to four-digit numbers times one-digit numbers and two-digit numbers times two-digit numbers — including the standard algorithm. Division is extended to multi-digit dividends with remainders. Students explore measurement conversions involving time, customary weight, and liquid volume, and solve complex, multi-step word problems.

Key Concepts: Multiplying up to 4-digit by 2-digit numbers • Long division with remainders • Measurement conversions • Multi-step problem solving

Module 4

Foundations for Fraction Operations

Students take fraction understanding to a new level — adding, subtracting, and multiplying fractions. They explore equivalent fractions, compare fractions with different denominators, and work with mixed numbers. They add and subtract fractions and mixed numbers with like and unlike units, and solve word problems involving multiplication of fractions by whole numbers. Data from line plots connects fractions to real-world contexts.

Key Concepts: Generating equivalent fractions • Comparing fractions with unlike denominators • Adding and subtracting mixed numbers • Multiplying fractions by whole numbers

Module 5

Place Value Concepts for Decimal Fractions

Students are introduced to decimal numbers as an extension of the place value system. They explore tenths and hundredths as fractions and in decimal form, represent decimals on number lines and place value charts, compare and order decimal numbers, and add decimals with tenths and hundredths. This module lays the groundwork for all decimal operations in Grade 5.

Key Concepts: Tenths and hundredths as fractions and decimals • Representing and comparing decimals • Adding tenths and hundredths • Connecting decimals to fractions

Module 6

Angle Measurements and Plane Figures

Students explore the geometry of lines, angles, and two-dimensional figures. They identify and draw points, lines, rays, and angles — including right, acute, obtuse, and straight angles — and learn to measure angles with a protractor. Students investigate perpendicular and parallel lines, find unknown angle measures, classify triangles and quadrilaterals, and explore lines of symmetry.

Key Concepts: Identifying and measuring angles • Using a protractor • Classifying triangles and quadrilaterals • Symmetry in plane figures