Course Syllabus

Description: In Math Grade 4, students will multiply and divide multi-digit whole numbers using different strategies and a standard algorithm. The course provides the opportunity for students to see the relationship between fractions and decimals and introduces addition and subtraction of each. Using a protractor to draw and measure angles is another focus of the course. Other engaging activities include learning about measurement and using median, mode, and range as ways to interpret data.

Estimated Completion Time: 2 segments, 32–36 weeks

Major Topics and Concepts

Segment One

- using place value patterns
- reading and writing whole numbers in different ways
- plotting, ordering, and comparing multi-digit whole numbers
- rounding multi-digit whole numbers
- adding and subtracting multi-digit whole numbers
- factors and multiples
- determining prime and composite numbers
- multiplying multi-digit numbers using strategies and a standard algorithm
- dividing by a one-digit number
- using number patterns
- understanding equations and variables
- understanding perimeter and area relationships
- finding median, mode, and range of whole numbers
- stem-and-leaf plots of whole numbers
- line plots with whole numbers

Segment Two

- understanding mixed numbers
- finding equivalent fractions and mixed numbers using different strategies
- adding fractions and mixed numbers
- subtracting fractions and mixed numbers
- multiplying a fraction by a whole number
- understanding fraction and decimal relationships
- working with decimals to the hundredths place
- finding median, mode, and range of fractions and decimals
- stem-and-leaf plots with fractions and decimals
- line plots with fractions and decimals
- measuring units of measure in the metric and customary system
- converting units of measure in the metric and customary system
- measuring and drawing angles

Students will need the following materials: printer, cell phone or scanner, headset or earbuds, notebook, pen, pencils, erasers, scissors, coloring materials (markers, crayons, colored pencils), glue, tape, stapler, ruler, printer paper, lined paper, colored paper, and general household objects for activities.

Grading Policy

Besides engaging students in challenging curriculum, the course guides students to reflect on their learning and evaluate their progress through a variety of assessments. Assessments can be in the form of practice lessons, multiple-choice questions, writing assignments, projects, oral assessments, and discussions. Core courses will use the state-approved grading scale, and Special Area courses will use an S or U grading scale.

Communication Policy

To achieve success, students are expected to submit work in each course weekly. Students can learn at their own pace; however, "any pace" still means that students must make progress in the course every week. To measure learning, students complete self-checks, practice lessons, multiple-choice questions, projects, and discussions. Students and families are expected to maintain regular contact with teachers because when teachers, students, and parent or guardians work together, students are successful.