Grade 4
Math Excellence Program


## Grade 4

## Numbers and Operations: 35-40 Classes

Students learn to read and write numbers up to one million and understand the value of each digit in a number. They also learn to compare and order numbers using the symbols <, >, and =. Students learn to add and subtract multi-digit whole numbers using a variety of strategies such as the standard algorithm, mental math, and estimation. They also learn to solve word problems involving addition and subtraction. Students learn to
 multiply and divide multi-digit whole numbers using a variety of strategies such as the standard algorithm, mental math, and estimation. They also learn to solve word problems involving multiplication and division.


#### Abstract

Algebra: 30-40 Classes Students will explore different activities for identifying fractions on a number line and representing fractions visually. They will develop understanding of the relationship between the numerator and denominator in a fraction. Students will also perform activities for comparing and ordering fractions with like denominators and finding equivalent fractions. They will also attempt problems on adding and subtracting fractions with like denominators. Students will develop understanding of improper fractions and mixed numbers. Students will develop the understanding that decimals represent parts of a whole and that they can be written as fractions. They will learn to represent decimals on a number line and understand their place value. They will also explore topics of comparing and ordering decimals. Throughout these topics, students also learn to solve word problems involving fractions and decimals, as well as use visual models such as fraction strips or decimal grids to aid their understanding.


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## Measurement: 15-20 Classes

Students will explore the topics of measuring length using standard units such as centimeters, meters, inches, and feet, converting between units of length. Measuring weight using standard units such as grams and kilograms, and understanding the concept of mass. Measuring capacity using standard units such as milliliters and liters. Estimating and measuring time using analog and digital clocks, and calculating elapsed time. Applying measurement concepts
 to solve real-world word problems. They may also work on developing their estimation skills and ability to use measurement vocabulary accurately.


## Geometry: 10-15 Classes

Students will build understanding the properties of 2D shapes such as squares, rectangles, triangles, and circles, including their sides, angles, and symmetry, Classifying 2D shapes based on their properties, Lines and Angles. Identifying lines of symmetry in 2D shapes. Understanding the properties of 3D shapes such as cubes, rectangular prisms, and spheres, including their faces, edges, and vertices. Recognizing the relationship between 2D and 3D shapes, Understanding and using coordinate grids and plotting points on them.
Understanding the concepts of translation, rotation, and reflection, and using them to manipulate shapes. Applying geometry concepts to solve real-world problems.

## Data Handling: 10-15 Classes

Students learn about data handling, which involves collecting, organizing, analyzing, and interpreting data collecting and organizing data using tables and graphs such as bar graphs, line graphs, and pictographs.
Interpreting data from tables and graphs. Applying data handling concepts to solve real-world problems. They will also work on developing their critical thinking
 skills and ability to use data handling vocabulary accurately.

TUTOR

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