MATHEMATICS

Grade 5 Mathematics

a. Number and Operations:
i. Place Value
ii. Rounding whole numbers
iii. Comparing and ordering whole numbers
iv. Addition and subtraction of whole numbers
v. Multiplication and division of whole numbers
vi. Understanding fractions and their equivalence
vii. Adding and subtracting fractions with like denominators
viii.Adding and subtracting fractions with unlike denominators

b. Algebra:
i. Recognizing patterns and relationships
ii. Writing and solving simple algebraic equations
iii.Using variables to represent unknown quantities

c. Geometry:
i. Understanding basic geometric shapes (lines, angles, triangles, quadrilaterals, circles)
ii. Measuring and drawing angles with a protractor
iii. Classifying shapes based on their attributes
iv. Identifying congruent and similar shapes

d. Measurement:
i. Understanding and converting units of measurement for length, weight, and capacity
ii. Telling time and calculating elapsed time
iii. Understanding area and perimeter

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e. Data Analysis and Probability:
i. Reading and interpreting data from tables and graphs
ii. Constructing and interpreting line plots and bar graphs
iii. Understanding probability and chance events

f. Ratios and Proportions:
i. Understanding the concept of a ratio and how to use ratio language
ii. Using ratio and rate reasoning to solve problems
iii. Understanding proportional relationships and using them to solve problems

g. Decimals:
i. Understanding the place value system for decimals
ii. Adding, subtracting, multiplying, and dividing decimals
iii. Converting between fractions and decimals

h. Percents:
i. Understanding the concept of a percent and how to use percent language
ii. Understanding and calculating percent increase and decrease
iii. Solving percent problems using proportions

I. Coordinate Geometry:
i. Understanding the coordinate plane and plotting points on it
ii. Understanding and using ordered pairs to represent points on a grid
iii. Understanding the relationship between the x- and y-axes and their intersection at the origin

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j . Problem Solving:

i . Applying mathematical reasoning and problem-solving strategies to solve problems

ii .Understanding different types of word problems (e.g., comparison, equal groups, part-part-whole)

iii. Using models, drawings, and other visual representations to solve problems