MATH

Math Grade 5

M.5.A Computation and Estimation

A.1. Students will:
- a) Identify properties of numbers, place value, mean, median, mode, etc.
- b) Computation of multi-digit numbers including addition, multiplication, subtraction, and division including decimals.
- c) Apply rounding and estimation skills to verify solutions to open sentences.

M.5.B Number Theory

B.1. Students will:
- a) Identify numbers in many forms and their properties such as prime, composite, factorization, exponents, even, and odd.
- b) Understand and display numbers in many forms such as arrays, factor strings, squares, and square roots.

M.5.C Geometry

C.1. Students will:
- a) Identify types of angles and their properties (complimentary and supplementary).
- b) Identify properties of various polygons.
- c) Measure and draw an angle to within 2 degrees.

M.5.D Exponents and Negative Numbers

D.1. Students will:
- a) Understand and apply exponential notation.
- b) Recognize positive and negative numbers and order them.
- c) Identify and draw angles (right, acute, and obtuse).
- d) Understand symmetry.

M.5.E Measurements

E.1. Students will:
    a) Understand and plot coordinates in four quadrants.
    b) Identify and apply formulas for area and volume.
    c) Identify properties of geometric solids such as vertices, edges, and surface area.
    d) Estimate length with tools to nearest 1/8 inch and millimeter; convert lengths.
    e) Find perimeter of polygons and area of circles.
    f) Define *pi*.

M.5.F Algebraic Concepts and Skills

F.1. Student will:
    a) Solve simple problems using correct order of operations (Parentheses, Exponents, Multiply, Division, Addition, Subtraction).
    b) Construct tables and interpret graphs.
    c) Construct responses.

M.5.G Fractions

G.1. Student will:
    a) Add, subtract, multiply fractions with common denominators.
    b) Convert, order, and compare fractions.
    c) Express remainders as a whole number or fractions as appropriate.
    d) Construct and interpret circle graphs.
    e) Demonstrate automaticity with multiplication facts and proficiency with division facts.

M.5.H Multiplication and Division

H.1. Student will:
    a) Divide by one and two digit divisors to find a quotient.
    b) Divide a decimal by a whole number.
    c) Solve division problems and interpret remainders.