Math Curriculum

GRADE 4, 5, 6

Numbers and Number Sense

- [ ] Multiplication of whole numbers
- [ ] Division of whole numbers
- [ ] Rounding numbers up to the nearest million
- [ ] Divisibility rules for 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12
- [ ] Order of operations - PEMDAS
- [ ] Multi-step word problems

Factors and Multiples

- [ ] Concept of factors
- [ ] Prime vs. composite numbers
- [ ] Prime factorization
- [ ] Greatest common factor
- [ ] Concept of multiples
- [ ] Least common multiple

Fractions

- [ ] Concept of fractions
- [ ] Simplifying fractions / changing fractions to their lowest forms
- [ ] Proper fractions vs. improper fractions vs. mixed numbers
- [ ] Addition of fractions (same and different denominators)
- [ ] Subtraction of fractions (same and different denominators)
- [ ] Multiplication of fractions
- [ ] Division of fractions

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Decimals

- [ ] Concept of decimals
- [ ] Place value of decimals
- [ ] Rounding off decimals
- [ ] Converting decimals to fractions and vice versa
- [ ] Addition of decimals
- [ ] Subtraction of decimals
- [ ] Multiplication of decimals
- [ ] Division of decimals
- [ ] Repeating, non-terminating decimals

Ratio and Proportion

RATIO

- [ ] Concept of ratio
- [ ] Expressing ratios in simplest forms
- [ ] Converting ratio to fraction and vice versa
- [ ] Finding the missing term in a pair of equivalent ratios

PROPORTION

- [ ] Concept of proportion
- [ ] Finding the missing term in a proportion

Percent

- [ ] Concept of percent
- [ ] Percent in relation to fractions, decimals, and ratios
- [ ] Finding percentage, rate, and base

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- [ ] Percent problems, including word problems involving discounts, commission, sales tax, and simple interest

Integers

- [ ] Concept of integers
- [ ] Compare and arrange integers
- [ ] Basic operations: addition, subtraction, multiplication, and division of integers

Exponents

- [ ] Exponent and base

Geometry

LINES

- [ ] Parallel lines
- [ ] Perpendicular lines
- [ ] Intersecting lines

ANGLES

- [ ] Right, acute, and obtuse angles

POLYGONS

- [ ] Types of triangles according to sides and angles
- [ ] Kinds of quadrilaterals: square, rectangle, parallelogram, trapezoid, and rhombus
- [ ] Names of polygons with 5 or more sides
- [ ] Regular and irregular polygons
- [ ] Congruent polygons

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PERIMETER

- [ ] Perimeter of a triangle
- [ ] Perimeter of a square
- [ ] Perimeter of a rectangle
- [ ] Perimeter of a parallelogram
- [ ] Perimeter of a trapezoid
- [ ] Circumference of a circle

AREA

- [ ] Area of a square
- [ ] Area of a rectangle
- [ ] Area of a triangle
- [ ] Area of a parallelogram
- [ ] Area of a trapezoid
- [ ] Area of a circle
- [ ] Area of composite figures formed by two or more shapes
- [ ] Converting sq. cm to sq. m and vice versa

SOLID FIGURES

- [ ] Solid figures vs. plane figures
- [ ] Solid figures: cube, prism, pyramid, cylinder, cone, and sphere

VOLUME

- [ ] Volume of a cube
- [ ] Volume of a rectangular prism
- [ ] Volume of a cylinder
- [ ] Volume of a pyramid
- [ ] Volume of a cone

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- [ ] Volume of a sphere
- [ ] Converting cu. cm to cu. m and vice versa
- [ ] Converting cu. cm to L and vice versa

SURFACE AREA

- [ ] Surface area of a cube
- [ ] Surface area of a prism
- [ ] Surface area of a pyramid
- [ ] Surface area of a cylinder
- [ ] Surface area of a cone
- [ ] Surface area of a sphere

Measurement

- [ ] Speed
- [ ] Distance
- [ ] Temperature
- [ ] Time
  - [ ] Computing elapsed time
  - [ ] 12-hour and 24-hour clocks
  - [ ] Calculating time in different time zones in relation to the Philippines
- [ ] Electric and water consumption

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Statistics

- [ ] Tables
- [ ] Bar graphs
- [ ] Line graphs
- [ ] Pie graphs

Algebra

- [ ] Solving for the unknown in simple equations
- [ ] Representing quantities in real-life situations using algebraic expressions and equations

Number Patterns

- [ ] Finding the next term in a sequence
- [ ] Finding the missing term in a sequence
- [ ] Finding the nth term in a sequence

Probability

- [ ] Phrases expressing probability, e.g., 50% chance of rain, one in a million chance of winning
- [ ] Making predictions based on the results of experiments