

Course Code	5012060
Course Category	K-5
Subject Area	Mathematics
Course Type	Core
Course Title	Grade 4
Course Level	1
Course Length	Full Year
Credit Description	NA
Abbreviated Title	Grade 4

RELATED BENCHMARKS (21) :

Scheme	Descriptor
MA.4.A.1.1	Use and describe various models for multiplication in problem-solving situations, and demonstrate recall of basic multiplication and related division facts with ease.
MA.4.A.1.2	Multiply multi-digit whole numbers through four digits fluently, demonstrating understanding of the standard algorithm, and checking for reasonableness of results, including solving real-world problems.
MA.4.A.2.1	Use decimals through the thousandths place to name numbers between whole numbers.
MA.4.A.2.2	Describe decimals as an extension of the base-ten number system.
MA.4.A.2.3	Relate equivalent fractions and decimals with and without models, including locations on a number line.
MA.4.A.2.4	Compare and order decimals, and estimate fraction and decimal amounts in real-world problems.
MA.4.A.4.1	Generate algebraic rules and use all four operations to describe patterns, including nonnumeric growing or repeating patterns.
MA.4.A.4.2	Describe mathematics relationships using expressions, equations, and visual representations.
MA.4.A.4.3	Recognize and write algebraic expressions for functions with two operations.
MA.4.A.6.1	Use and represent numbers through millions in various contexts, including estimation of relative sizes of amounts or distances.
	Use models to represent division as:
MA.4.A.6.2	<ul style="list-style-type: none"> • the inverse of multiplication • as partitioning • as successive subtraction
MA.4.A.6.3	Generate equivalent fractions and simplify fractions.
MA.4.A.6.4	Determine factors and multiples for specified whole numbers.

- MA.4.A.6.5 Relate halves, fourths, tenths, and hundredths to decimals and percents.
- MA.4.A.6.6 Estimate and describe reasonableness of estimates; determine the appropriateness of an estimate versus an exact answer.
- MA.4.G.3.1 Describe and determine area as the number of same-sized units that cover a region in the plane, recognizing that a unit square is the standard unit for measuring area.
- MA.4.G.3.2 Justify the formula for the area of the rectangle "area = base x height".
- MA.4.G.3.3 Select and use appropriate units, both customary and metric, strategies, and measuring tools to estimate and solve real-world area problems.
- MA.4.G.5.1 Classify angles of two-dimensional shapes using benchmark angles (i.e. 45° , 90° , 180° , and 360°)
- MA.4.G.5.2 Identify and describe the results of translations, reflections, and rotations of 45, 90, 180, 270, and 360 degrees, including figures with line and rotational symmetry.
- MA.4.G.5.3 Identify and build a three-dimensional object from a two-dimensional representation of that object and vice versa.