

Grade 6 Mathematics - At A Glance			
Organizing Idea	Grade 6 Learning Outcome	Highlights of your Child's Learning (by the end of Grade 6)	
Number	Students investigate magnitude with positive and negative numbers.	 Identify negative numbers in familiar contexts, including contexts that use vertical or horizontal models of the number line. Compare and order positive and negative numbers. Model and add any two negative or positive numbers (integers). 	
	Students solve problems using standard algorithms for addition and subtraction.	 Solve problems in various contexts (Example: money and measurement) using standard algorithms for addition and subtraction. 	
	Students analyze numbers using prime factorization and exponentiation.	 Compose a product in multiple ways, including with more than two factors. Determine divisibility of a number from its prime factorization. Express the product of identical factors as a power 	
	Students apply standard algorithms to multiplication and division of decimal and natural numbers.	 Multiply and divide numbers using standard algorithms Check the reasonableness of a product or quotient by estimating Solve problems using multiplication and division, including problems involving money. 	
	Students relate fractions to quotients.	 Model and describe an equal-sharing situation in more than one way. Express a fraction as a division statement and vice versa. Change a fraction to a decimal using division. 	
	Students add and subtract fractions with denominators within 100.	 Express two fractions with common denominators. Add and subtract fractions. Solve problems involving addition and subtraction of fractions. 	

Students interpret the multiplication of natural numbers by fractions.• Multiply a number by a fraction. • Relate multiplication by a unit fraction to division. • Solve problems using multiplication of a fraction and a natural number.
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	Students apply equivalence to the interpretation of ratios and rates.	 Determine whether two ratios are equivalent. Relate the percentage of a number to a proportion. Determine a percent of a number, limited to percentages within 100%. Solve problems involving ratios, rates, and proportions.
Algebra	Students analyze expressions and solve algebraic equations.	 Evaluate expressions involving operations in brackets and powers according to the order of operations. Simplify algebraic expressions by combining like terms. Determine different strategies for solving equations. Solve problems using equations limited to one or two operations.
Geometry	Students analyze shapes through symmetry and congruence.	 Describe the symmetry between two shapes as reflection symmetry or rotational symmetry. Symmetry is a relationship between two shapes that can be mapped exactly onto
Coordinate Geometry	Students explain location and movement in relation to position in the Cartesian plane.	 Location can be described using coordinates on a grid. (includes all 4 quadrants) Create an image of a polygon in the Cartesian plane by reflecting, rotating or translating (sliding).
Measurement	Students analyze areas of parallelograms and triangles.	 Understand the characteristics of triangles and parallelograms related to length and area Describe the relationship between the area of a triangle and the area of a parallelogram with the same base and height. Determine the area of composite shapes using the areas of triangles and parallelograms.
Patterns	Students investigate functions to enhance understanding of change.	 Create a table of values related to the function. Create a graph from the table of values. Write an algebraic expression that represents a function. Solve problems involving a function.

Statistics	Students investigate	 Express relative frequencies as decimals, fractions, or percentages.
	relative frequency using	 Collect categorized data through experiments.
	experimental data.	 Analyze relative frequency statistics from experiments with different sample sizes.