

Grade 5 Mathematics - At A Glance				
Organizing Idea	Grade 5 Learning Outcome	Highlights of your Child's Learning (by the end of Grade 5)		
Number	Students analyze patterns in place value.	 Express numbers within 10 000 000, including decimal numbers to thousandths, using words and numerals. Relate a decimal number to its position on the number line. Express the relationship between two numbers, including decimal numbers, using <, >, or = • Round numbers, including decimal numbers, to various places according to context. 		
	Students add and subtract within 1 000 000, including decimal numbers to thousandths, using standard algorithms.	 Add and subtract numbers, including decimal numbers, using standard algorithms Assess the reasonableness of a sum or difference using estimation Solve problems using addition and subtraction, including problems involving money 		
	Students determine divisibility of natural numbers.	 Investigate divisibility by 0 through to 10 Generalize divisibility tests for 2, 3, and 5 Determine factors using divisibility tests 		
	Students multiply and divide natural numbers within 100 000, including with standard algorithms.	 Multiply up to 3-digit by 2-digit numbers using standard algorithms. Divide 3-digit by 1-digit numbers using standard algorithms. Assess the reasonableness of an answer using estimation. Solve problems using multiplication and division. 		

	Students interpret improper fractions.	 Relate fractions, improper fractions, and mixed numbers to their positions on the number line. Count beyond 1 using fractions with the same denominator. Model fractions, including improper fractions and mixed numbers, using quantities, lengths, and areas. Express improper fractions and mixed numbers symbolically.
	Students add and subtract	 Add and subtract fractions with common denominators within 100, including
	fractions with common denominators.	 improper fractions and mixed numbers. Solve problems requiring addition and subtraction of fractions with common denominators, including improper fractions and mixed numbers.
	Students employ ratios to represent relationships between quantities.	 Express ratios to describe various situations. Express, symbolically, the same part-whole relationship as a ratio, fraction, decimal, and percentage.
Algebra	Students interpret numerical and algebraic expressions.	 Evaluate expressions with one or two terms following order of operations including brackets An equation with one or two operations is solved by determining an unknown value that makes the left and right sides of an equation equal.
Geometry	Students investigate symmetry as a geometric property.	 Investigate reflection, rotation and lines of symmetry in 2-D and 3-D shapes Symmetry can be found in nature and in First Nations, Métis, and Inuit designs Classify 2-D shapes according to symmetry
Coordinate Geometry	Students relate location to position on a grid.	 Location can be described using coordinates on a grid. (limited to quadrant 1)
Measurement	Students estimate and calculate area using standard units.	 Relate length (cm, m and km) to area (cm², m² and km²) Use a benchmark for a cm² or m² to estimate an area. Compare the perimeters of various rectangles with the same area.
Patterns	Students relate terms to position within an arithmetic sequence.	 Describe the graph of a given context as a straight line. Write an algebraic expression that matches a table of values or a straight-line graph

Statistics	Students analyze frequency in categorical data.	 Determine frequency (how often a value occurs) for each category of a set of data. Use the mode to justify answers to statistical questions Decide when it is useful to use open-ended or closed-list survey questions to gather data Categorize data that was collected using closed-list questions. Create various representations of data to interpret frequency.
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