



Freemans Reach Public School

Mathematics Basic Facts Scope and Sequence

Note: This is not a complete Mathematics program – just what we expect students to be able to mentally compute with ease at each grade level.

Outcomes	Whole Number	Addition and Subtraction	Multiplication and Division
	<p>MAe-4NA counts to 30, and orders, reads and represents numbers in the range 0 to 20</p> <p>MA1-4NA applies place value, informally, to count, order, read and represent two- and three-digit numbers</p> <p>MA2-4NA applies place value to order, read and represent numbers of up to five digits</p> <p>MA3-4NA orders, reads and represents integers of any size and describes properties of whole numbers</p>	<p>MAe-5NA combines, separates and compares collections of objects, describes using everyday language, and records using informal methods</p> <p>MA1-5NA uses a range of strategies and informal recording methods for addition and subtraction involving one- and two-digit numbers</p> <p>MA2-5NA uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers</p> <p>MA3-5NA selects and applies appropriate strategies for addition and subtraction with counting numbers of any size</p>	<p>MAe-6NA groups, shares and counts collections of objects, describes using everyday language, and records using informal methods</p> <p>MA1-6NA uses a range of mental strategies and concrete materials for multiplication and division</p> <p>MA2-6NA uses mental and informal written strategies for multiplication and division</p> <p>MA3-6NA selects and applies appropriate strategies for multiplication and division, and applies the order of operations to calculations involving more than one operation</p>
	Communicating	Problem Solving	Reasoning
	<p>MAe-1WM describes mathematical situations using everyday language, actions, materials and informal recordings</p> <p>MA1-1WM describes mathematical situations and methods using every day and some mathematical language, actions, materials, diagrams and symbols</p> <p>MA2-1WM uses appropriate terminology to describe, and symbols to represent, mathematical ideas</p> <p>MA3-1WM describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p>	<p>MAe-2WM uses objects, actions, technology and/or trial and error to explore mathematical problems</p> <p>MA1-2WM uses objects, diagrams and technology to explore mathematical problems</p> <p>MA2-2WM selects and uses appropriate mental or written strategies, or technology, to solve problems</p> <p>MA3-2WM selects and applies appropriate problem solving strategies, including the use of digital technologies, in undertaking investigations</p>	<p>MAe-3WM uses concrete materials and/or pictorial representations to support conclusions</p> <p>MA1-3WM supports conclusions by explaining or demonstrating how answers were obtained</p> <p>MA2-3WM checks the accuracy of a statement and explains the reasoning used</p> <p>MA3-3WM gives a valid reason for supporting one possible solution over another</p>

GRADES	Content Expectations			
	Numeral Identification (Including Number before and after)	Oral Counting (Forward and Backward)	Addition and Subtraction	Multiplication and Division
Kindergarten	Reads numbers to 30	Oral Counting – 30 Counting by 10s	Friends of 10 (+ -) (eg. 6 and ? make 10)	Modelling equal groups and sharing groups of objects.
Year 1	Reads numbers to 100 Oral Counting x 10, 2, 5	Oral Counting to 120 Counting by 2s, 5s, Counting 10s and 100s from any number	Friends of 20 (+ -)	
Year 2	Reads numbers to 1,000	Counting by 2s and 5s from any number	Friends of 30 (+ -) Doubling and Halving to 30 +- 10 to any number	1x tables (x ÷) 2x tables (x ÷) 5x tables (x ÷) 10x tables (x ÷)
Year 3	Reads numbers to 10,000	Counting by 3s, 9s and 11s from any number	Friends of 100 (+ -) Patterns for adding 9	3x tables (x ÷) 6x tables (x ÷) 9x tables (x ÷) 11x tables (x ÷)
Year 4	Reads numbers to 100,000	Counting by 4s from any number	Friends of 1,000 (+ -) Patterns for adding 11	4x tables (x ÷) 7x tables (x ÷) 8x tables (x ÷) 12x tables (x ÷)
Year 5	Reads numbers to 1,000,000	Counting by 50 from any number Counting by 25	Extending Friends of Ten understanding to larger numbers	Know all tables in under 15 seconds (x ÷) Know tables out of order
Year 6	Reads numbers >1,000,000			$\frac{1}{2}$ of, $\frac{1}{4}$ of, $\frac{1}{10}$ of, $\frac{1}{3}$ of x ÷ any number by 10 or 100 by moving decimal point