






## Numicon 4 teaching progression with milestones

The Numicon teaching progression chart gives an overview of the expected coverage over the school year and the recommended order for teaching the activity groups. (Statistics work has been included within the Geometry and Measurement activity groups through appropriate contexts.)

See the long- and medium-term planning documents for Number, Pattern and Calculating 4 (NPC4) and Geometry, Measurement and Statistics 4 (GMS4) for references to assessment milestone statements; a fantastic tool for measuring children's progress. These can also be found in the chart at the end of the Milestone Assessment Introduction.

Strand and Activity Group Number	Activity Group Title
Getting Started	Getting started with Number, Pattern and Calculating 4
Calculating 1	Using adding and subtracting facts and understanding inverse relationships
Numbers and the Number System 1	Understanding place value in 4-digit numbers
Pattern and Algebra 1	Exploring sequences and number patterns
Numbers and the Number System 2	Ordering and comparing numbers to 1000 and beyond
Calculating 2	Strategies for bridging when adding and subtracting
<b>NPC Milestone 1</b>	
Numbers and the Number System 3	Estimating and rounding
Geometry 1	Classifying triangles and quadrilaterals
Calculating 3	Developing fluency with mental adding strategies
Calculating 4	Developing fluency with mental subtracting strategies
Calculating 5	Developing fluency with multiplying facts to $12 \times 12$
Calculating 5	Developing fluency with dividing facts to $12 \times 12$
<b>NPC Milestone 2</b>	
Pattern and Algebra 2	Exploring inverse relationships
Calculating 7	Mental strategies for multiplying and dividing by 10 and 100
Geometry 2	Understanding reflective symmetry
Numbers and the Number System 4	Introducing negative numbers
Numbers and the Number System 5	Fractions and recognizing part-whole relationships
Calculating 8	Developing fluency with the column method of adding
Calculating 9	Developing fluency with the column method of subtracting
<b>NPC Milestone 3</b>	
Geometry 3	Investigating angles in shapes
<b>GMS Milestone 1</b>	

Strand and Activity Group Number	Activity Group Title	
Numbers and the Number System	6	Introducing decimal fractions
Pattern and Algebra	3	Exploring 'equals' in balancing number sentences
Calculating	10	Exploring the distributive property and developing written methods of multiplying
<b>NPC Milestone</b> 		
Calculating	11	Using multiplying facts to solve dividing problems
Pattern and Algebra	4	Exploring multiples and factors
Calculating	12	Developing fluency with the short written method of multiplying
Calculating	13	Developing fluency with the short written method of dividing
Calculating	14	Solving problems involving more than one step
<b>NPC Milestone</b> 		
Measurement	1	Finding times and durations, and using 24-hour clock
<b>GMS Milestone</b> 		
Pattern and Algebra	5	Looking for growing patterns in problem solving
Numbers and the Number System	7	Exploring equivalence in fractions and introducing proportion
Numbers and the Number System	8	Introducing decimal fractions with two places
Measurement	2	Calculating with money amounts
Measurement	3	Understanding and using units of length and distance
<b>GMS Milestone</b> 		
Measurement	4	Understanding and using units of mass
Measurement	5	Understanding and using units of capacity and volume
Pattern and Algebra	6	Solving problems and puzzles systematically
Measurement	6	Understanding perimeter and area
<b>GMS Milestone</b> 		
Pattern and Algebra	7	Exploring general rules, reasoning and logic
<b>NPC Milestone</b> 