Numicon 6 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 6 (NPC 6) and Geometry, Measurement and Statistics 6 (GMS 6) 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
Preparing for Formal Testing	1	Self-assessment and choosing imagery
Preparing for Formal Testing	2	Problem solving strategies
Numbers and the Number System	1	Working with numbers beyond a million and decimals
Calculating	1	Adding and subtracting negative numbers in context, and large numbers
Calculating	2	Multiplying and dividing
		NPC Milestone 1
Measurement	1	Statistics, charts and graphs
Pattern and Algebra	1	Multiples, factors and primes
Numbers and the Number System	2	Fractions
Calculating	3	Estimating, rounding and equivalence
Calculating	4	Column methods for adding and subtracting
Calculating	5	Percentages
		NPC Milestone 2
Geometry	1	2D shapes and angles
		GMS Milestone 1
Calculating	6	Exploring calculations: multi-step non-routine problems and order of operations
Calculating	7	Ratio and proportion
Measurement	2	Areas of 2D shapes
Calculating	8	Converting fractions and decimals
Pattern and Algebra	9	Exploring number sequences and relationships
		NPC Milestone 3
Measurement	3	3D shapes – nets and surface area
		GMS Milestone 2

Strand and Activity Group Number	ctivity Group Title	
Calculating	Written column methods of multiplying	
Calculating 1	Introducing long written methods of dividing	
Measurement 4	olume and scaling	
Calculating 1	dding and subtracting with fractio	ns
Calculating 1	ultiplying and dividing fractions	
Pattern and Algebra	sing algebra to solve problems	
		NPC Milestone 4
Geometry	rcles	
Calculating 1	Solving non-routine problems using all four operations	
Geometry	ansformations in the four quadrar	nts
		GMS Milestone 3
Pattern and Algebra	sing symbols and letters for varial	oles and unknowns
		NPC Milestone 5
Preparing for Formal Cartesting	Fluency in calculating with whole numbers and decimals	
Preparing for Formal Testing	Fluency in calculating with fractions and decimals	
Preparing for Formal ! Testing	reparing to do maths in test condi	tions

NPC and GMS Investigating activity groups

The investigating activities are independent and can be followed in any order. You may choose to use some or all of the topics with your class, according to their interests and the time available.

NPC Investigating 1	Making squares
NPC Investigating 2	What did I do?
NPC Investigating 3	How many ways?
NPC Investigating 4	Decimal patterns
NPC Investigating 5	Which is the best value?
NPC Investigating 6	An enterprise project
GMS Investigating 1	Shape shifting
GMS Investigating 2	Macro maths
GMS Investigating 3	Interesting information
GMS Investigating 1 GMS Investigating 2	Shape shifting Macro maths