Numicon teaching progression: Number, Pattern and Calculating 2 and Geometry, Measurement and Statistics 2

Fluency of basic skills : counting, number bonds, multiplication & division to be taught and then embedded as part of Maths introduction, Early bird & precision teaching.

Differentiation via the Number progression across year groups.

Problem solving – Use Numicon Milestone Assessment Cards for appropriate year group (Oxford Owl Numicon Resources). Staff meeting to support mapping Milestone cards to activities taught.

Y1 I can statement	**Y2 I can statement**	Y3 I can statement	**Activity to be taught**
	Getting Started Getting started with Number, Pattern and Calculating 2		
I can use mental methods to add to 20. I can use mental methods to subtract from 20.	I can use mental methods to solve addition problems. I can use mental methods to solve subtraction problems	I can add and subtract numbers mentally. I can mentally add and subtract a 3 digit number and ones. I can mentally add and subtract a 3 digit numbers and tens. I can mentally add and subtract a 3 digit number and hundreds.	Y2 Calculating 1 & 2
I can count to 100, forwards from 0 and 1 from any given number. I can count to 100, backwards from 0 and 1 from any given number. I can read and write numbers from 0 – 20 in numerals. I can read and write numbers from 0- 20 in words.	**Numbers and the Number System 2** 2-digit numbers **Numbers and the Number System 3** I can read and write numbers to 100 in numerals. I can read and write numbers to 100 in words.	I can read and write numbers to 1000 in numerals. I can read and write numbers to 1000 in words	Y1 NNS3 (scale up to appropriate numbers) Y2 NNS2 (2.1 2.2 2.3 2.4 2.5 2.6) Bingo games / matching activities and handwriting activities.
I can compare and order numbers to 20. I can identify 1 more or 1 less from a given number.	I can recognise the place value in a 2 digit number (tens and ones) I can compare and order numbers to 100. I can use < and > = to 100.	I can recognise the place value of each digit in a three digit number (hundreds, tens, ones) I can compare and order numbers to 1000. I can find 10 more or less from a given number. I can find 100 more or less from a given number	Y2 NNS 4 Activities 1 – 6 Y2 Calc 6 Activities 1,2,3,4,6,9 Y1 Calculating 2 Activities 1,2,3,4 Y3 Calculating 10 Activities 6
	I can use place value & number facts to solve problems.	I can solve number problems and practical problems.	Y2 P & A 2 Activities 1 2 4 5 6 Y2 P & A 3 Activities 2,3, 4

I can use the language of equal to, more than, less than, less than, fewer, least. I can identify and represent numbers using objects and pictorial representations including number lines.	I can identify, represent and estimate numbers using different representations including using the number lines.	I can identify represent and estimate numbers using different representations	Y2 Calculating 4 Activity 8 Y2 NNS 2 Activities 3 – 7 (repeated)
	I can recognise odd and even numbers.		Y2 Pattern & Alg 4 Activity 1 2 3 5 8 9 10
I can solve problems to 20.	I can use place value & number facts to solve problems (repeated)	I can use place value & number facts to solve problems (repeated)	Y2 Calculating 6 Activities 1-5 Y2 NNS3 Activities 3, 4 ,5
I can count in multiples of 2s. I can count in mulitples of 10s. I can count in mulitples of 5s.	I can count in steps of 2 forwards and backwards from any number. I can count in steps of 10 forwards and backwards from any number. I can count in steps of 5 forwards and backwards from any number. I can count in steps of 3 forwards and backwards from any number.	I can count from 0 in multiples of 4. I can count from 0 in multiples of 8. I can count from 0 in multiples of 50. I can count from 0 in multiples of 100.	Y2 Pattern and Algebra Activities 5 : 3,6, 7-12 Number rods and tracks
I can add 1 and 2 digit numbers to 20 including 0. I can subtract 1 digit and 2 digit numbers from 20 including 0	I can add and subtract number using concrete objects and pictorial representations and mentally including : A two digit number and ones (Calc 7 & 10) A two digit numbers and tens (Calc 11 and 13) Two two digit numbers (Calc 13) Three one digit numbers (Calculating 12)	I can add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.	Y2 Calculating 5 Y2 Calculating 7 Y2 Calculating 10 Y2 Calculating 11 Y2 Calculating 12 Y 2 Calculating 13 Y2 Calculating 14 Y1 Calculating 8 (number bonds and addition / subtraction strategies to 20).
I can solve one step problems involving multiplication using concrete, pictorial and arrays with support from the teacher. I can solve one step problems involving division using concrete, pictorial and arrays with support from the teacher.	I can recall and use x facts to 2 x table. I can recall and use dividing facts to 2 x table I can recall and use x facts to 5 x table. I can recall and use dividing facts to 5 x table I can recall and use x facts to 5 x table. I can recall and use dividing facts to 5 x table	I can recall and use x facts to3 x table. I can recall and use dividing facts to 3 x table I can recall and use x facts to 4 x table. I can recall and use dividing facts to 4 x table I can recall and use x facts to 8 x table. I can recall and use dividing facts to8 x table	Y2 Calculating 8 Act 3 – 8 Y2 Calculating Y3 Calculating 10 Act 2 & 6
I can calculate answers using concrete operations. I can calculate answers using pictorial representations. I can calculate answers using arrays with support.	I can calculate mathematical statemements for division within the multiplication statements and write using multiplication, division, addition and equal signs.	I can write and calculate mathematical statements for x using multiplication tables they know. I can write and calculate mathematical statements for dividing using x tables they know. I can calculate maths statements for 2 digits x 1 digit number. I can use mental methods to multiply and divide. I can use written methods to multiply and divide.	Y2 Calculating 9 Activity 8 & 9 Y2 Calculating 15 Activity 1- 6 Y3 Calculating 15 Act 6 & 7 (if ready for formal)
I can solve 1 step problems including multiplication. **I can solve 1 step problems including division.**	I can solve problems involving multiplication using arrays. I can solve problems involving division using arrays. I can solve problems involving x using repeated addition. I can solve problems involving division using pictorial methods. I can solve problems involving x using mental	I can solve missing number problems involving x I can solve missing number problems involving division I can solve problems including positive integer scaling problems. I can solve problems in which n objects are connected to m obkects.	Y2 Calculating 8 9 15 Y3 Calculating 6 Activity 1 2 4 Y3 Calculating 7 Activity 1 2 3

	methods. I can solve problems involving division using mental methods.		
		I know that multiplication is commutative and division is not.	Y 3 Calculating 6 Activity 3 Y 3 Calculating 7 Activity 4 Use arrays / number rod track to differentiate below Y3.
I can recognise half as one of 2 equal parts of an object. **I can recognise ½ as one of 2 equal parts of a shape.** **I can recognise ½ as one of 2 equal parts of a quantity.** **I can recognise, find and name ½ as one of 2 equal parts.**	**I can recognise find and name fractions : 1/3 ¼ 2/4 ¾** **I can write fractions : 1/3, 1/4 , 2/4, ¾ of a length.** **I can write fractions : 1/3, 1/4 , 2/4, ¾ of a shape.** **I can write fractions : 1/3, 1/4 , 2/4, ¾ of an object.** **I can write fractions : 1/3, 1/4 , 2/4, ¾ of a quantity.**	I can recognise and use fractions as numbers. I can recognise and use fractions as unit fractions and non unit fractions with small demoninators. I can recognise, find and write fractions of a discrete set of objects. I can recognise, find and write fractions of unit fractions and non unit fractions with a small denominator.	Y2 Calculating 16 : 1 2 5 6 7
	I can recognise the equivalence of 2/4 and ½	I can recognise and show using diagrams, equivalent fractions with small denominators	Y2 Numbers and the number system 6 Activity 4 Y3 Numbers and the number system 7 Activity 6 Y2 Calculating 16 Activity 4 5 6
		I can compare and order fractions with the same denominators I can add and subtract fractions with the same denominator within one whole. Eg 5/7 + 1/7 = 6/7 I can solve problems with all of the above.	Y3 Numbers and the number system 7 Activity 5 Y3 calculating 16 Activity 1 2 4 5 6
	Numbers and the Number System 5 Rounding		
	Pattern and Algebra 6 Logic **Pattern & Algebra 7** Finding all possibilities		