

# Numicon teaching progression: Number, Pattern and Calculating 3 and Geometry, Measurement and Statistics 3

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.)

<b>Strand &amp; activity group #</b>	<b>Activity group title</b>	<b>Explorer Book Copymaster #</b>
<b>Getting Started</b>	Getting started with Number, Pattern and Calculating 3	3a p.2-3 1: Talk Time
<b>Calculating 1</b>	Developing fluency with adding and subtracting facts to 10	3a p.4-5 15: Around the Board
<b>Numbers and the Number System 1</b>	Finding how many by grouping in 10s and 100s	3a p.6-7 7: Stairs
<b>Calculating 2</b>	Developing fluency with adding and subtracting facts to 20	3a p.8-9 16: Total 20
<b>Numbers and the Number System 2</b>	Exploring hundreds, tens and units with base-ten apparatus	3a p.10-11 8: Robot Tens
<b>Pattern and Algebra 1</b>	Exploring the inverse relationship between adding and subtracting	3a p.12-13 2: Trios
<b>Numbers and the Number System 3</b>	Keeping count and writing numbers down	3a p.14-15 9: Home Survey
<b>Calculating 3</b>	Mental methods for adding single-digit numbers	3a p.16-17 17: Climb the Stairs
<b>Calculating 4</b>	Mental methods for subtracting single-digit numbers	3a p.18-19 18: Rocket Launch
<b>Pattern and Algebra 2</b>	Exploring steps of constant size through sequences of multiples	3a p.20-23 3: Three in a Row
<b>Geometry 1</b>	Investigating the parts and properties of polygons and polyhedra	GMS Teacher H.book
<b>Calculating 5</b>	Revising multiplying as repeated adding	3b p.2-3 19: Pizza Maker
<b>Calculating 6</b>	Exploring multiplying through arrays	3b p.4-5 20: Sowing Seeds
<b>Calculating 7</b>	Introducing dividing as 'How many ... in ...?'	3b p.6-7 21: Mini Books
<b>Geometry 2</b>	Identifying and comparing angles by size	GMS Teacher H.book
<b>Numbers and the Number System 4</b>	Partitioning 2- and 3-digit numbers with and without money	3b p.8-9 10: Game Show
<b>Geometry 3</b>	Sorting and classifying 2D and 3D shapes	GMS Teacher H.book
<b>Numbers and the Number System 5</b>	Ordering and structuring numbers to 1000	3b p. 10-11 11: Jigsaw 100
<b>Calculating 8</b>	Adding and subtracting multiples of 10 and 100	3b p.12-13 22: Moneybox
<b>Calculating 9</b>	Patterns of similar adding and subtracting calculations	3b p.14-15 23: Domino Doubles
<b>Pattern and Algebra 2</b>	Reading and creating scales with different intervals	3b p.16-17 4: Broken Ruler

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<b>Numbers and the Number System 6</b>	Finding half way, rounding to the nearest 10 or 100	3b p.18-19 12: Running Track
<b>Calculating 10</b>	Learning multiplying facts and looking for patterns	3b p.20-23 24: Frog Hop
<b>Calculating 11</b>	Introducing the sharing structure of dividing	3c p.2-3 25: Picnic Basket
<b>Pattern and Algebra 4</b>	Extending sequences and finding differences	3c p.4-5 5: Snake Sequences
<b>Calculating 12</b>	Partitioning strategies for adding and subtracting	3c p.6-7 26: Raffle Tickets
<b>Measurement 1</b>	Telling the time to the minute on the 12-hour clock	GMS Teacher H.book
<b>Measurement 2</b>	Exploring units of time	GMS Teacher H.book
<b>Calculating 13</b>	Using apparatus and imagery to introduce the written column method for adding	3c p.8-9 27: Treasure Chest
<b>Calculating 14</b>	Using apparatus and imagery to support subtracting and introducing the written column method	3c p.10-11 28: Snail Race
<b>Calculating 15</b>	Exploring ratio and scaling problems and introducing the short written methods of multiplying and dividing	3c p.12-13 29: Seal Balance
<b>Measurement 3</b>	Measuring accurately and calculating with metres, centimetres and millimetres	GMS Teacher H.book
<b>Measurement 4</b>	Calculating with pounds and pence, and handling money	GMS Teacher H.book
<b>Calculating 16</b>	Making connections between dividing into equal parts and calculating with fractions	3c p.14-15 30: Hexagon Halving
<b>Measurement 5</b>	Measuring and calculating with grams and kilograms	GMS Teacher H.book
<b>Measurement 6</b>	Measuring and calculating with litres and millilitres	GMS Teacher H.book
<b>Numbers and the Number System 7</b>	Understanding fractions of a whole and fractions as numbers	3c p.16-17 13: Fill the Squares
<b>Numbers and the Number System 8</b>	Using fraction notation to describe parts of a discrete set	3c p.18-19 14: Big Wheel
<b>Pattern and Algebra 5</b>	Finding all possibilities and investigating a general statement	3c p.20-23 6: Numicon Towers
<b>Geometry 4</b>	Using grids and grid references	GMS Teacher H.book