

## Match of White Rose Scheme of Work v3.0 to Numicon 2 Activity Groups

Clicking on a link in the long-term plan below will take you straight to all the information you need on that strand within the document. There, you can see which Numicon Focus Activity corresponds to each White Rose Small Step for that strand. You can click on each of the Numicon Focus Activity links to open the relevant activity on Numicon Online in a new tab. Please note you will need to be logged into your Numicon Online subscription first.

Unless otherwise specified, references are to the *Number, Pattern and Calculating 2 Teaching Resource Handbook (NPC 2 TRH)* or the *Geometry, Measurement and Statistics 2 Teaching Resource Handbook (GMS 2 TRH)*.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	<a href="#">Number</a> <a href="#">Place value</a>				<a href="#">Number</a> <a href="#">Addition and subtraction</a>					<a href="#">Geometry</a> <a href="#">Shape</a>		
Spring term	<a href="#">Measurement</a> <a href="#">Money</a>		<a href="#">Number</a> <a href="#">Multiplication and division</a>					<a href="#">Measurement</a> <a href="#">Length and height</a>		<a href="#">Measurement</a> <a href="#">Mass, capacity and temperature</a>		
Summer term	<a href="#">Number</a> <a href="#">Fractions</a>			<a href="#">Measurement</a> <a href="#">Time</a>			<a href="#">Statistics</a>		<a href="#">Geometry</a> <a href="#">Position and direction</a>		Consolidation	

## Match of White Rose Maths Progression to Numicon Focus Activities

Year 2 | Autumn Term | Small Steps Progression

Week 1 to 4 – Number: Place value

Unless otherwise specified, references are to the *Number, Pattern and Calculating 2 Teaching Resource Handbook (NPC 2 TRH)* or the *Geometry, Measurement and Statistics 2 Teaching Resource Handbook (GMS 2 TRH)*. The strands are referred to as follows: PA = Pattern and Algebra; NNS = Numbers and the Number System; Calc = Calculating; Geo = Geometry; Mea = Measurement; SF = Securing Foundations. The first number denotes the Activity Group, while the second number marks the focus activity.

For example, NNS 1.7 refers to Numbers and the Number System 1, focus activity 7.

### Overview

Small step	Numicon focus activities
Numbers to 20	<a href="#">GS6</a> , <a href="#">GS7</a>
Count objects to 100 by making 10s	<a href="#">NNS 1.3</a> , <a href="#">NNS 1.4</a>
Recognise tens and ones	<i>Adapt <a href="#">NNS 2.3</a> to use just rods</i>
Use a place value chart	<a href="#">NNS 3.2</a>
Partition numbers to 100	<a href="#">NNS 2.5</a>
Write numbers to 100 in words	<i>Extend the number range in <a href="#">NNS 2.1</a></i>
Flexibly partition numbers to 100	<a href="#">Calc 6.3</a> , <a href="#">Calc 6.4</a>
Write numbers to 100 in expanded form	<a href="#">NNS 2.7</a>
10s on the number line to 100	<a href="#">NNS 2.6</a> , <a href="#">PA 5.11</a> <i>in track format</i>
10s and 1s on the number line to 100	<a href="#">NNS 1.6</a>
Estimate numbers on a number line	<a href="#">NNS 3.5</a>
Compare objects	<i>Combine and extend <a href="#">NNS 1.1</a>, <a href="#">NNS 2.1</a></i>
Compare numbers	<a href="#">NNS 2.4</a> , <a href="#">NNS 4.2</a>
Order objects and numbers	<a href="#">NNS 3.4</a> , <a href="#">NNS 4.4</a> , <a href="#">NNS 4.5</a>
Count in 2s, 5s and 10s	<a href="#">PA 5.2</a> , <a href="#">PA 5.9</a> , <a href="#">Mea 2.1</a>
Count in 3s	<a href="#">PA 5.4</a> , <a href="#">PA 5.5</a>

### NC Objectives

- Read and write numbers from 1 to 20 in numerals and words (Y1).
- Read and write numbers to at least 100 in numerals and in word.
- Identify, represent and estimate numbers using different representations, including the number line.
- Count in steps of 2, 3 and 5 from 0, and in 10s from any number, forward and backward.
- Recognise the place value of each digit in a 2-digit number (tens, ones).
- Count in steps of 2, 3 and 5 from 0 and in 10s from any number, forward and backward.
- Compare and order numbers from 0 up to 100; use and = signs.

## Match of White Rose Maths Progression to Numicon Focus Activities

Year 2 | Autumn Term | Small Steps Progression

Week 5 to 9 – Number: Addition and subtraction

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For example, NNS 1.7 refers to Numbers and the Number System 1, focus activity 7.

### Overview

Small step	Numicon focus activities
Bonds to 10	Adapt <a href="#">Calc 1.4</a> to focus just on bonds to 10
Fact families – addition and subtraction bonds within 20	<a href="#">Calc 14.6</a> , <a href="#">Calc 14.7</a>
Related facts	<a href="#">Calc 4.1</a> , <a href="#">Calc 4.2</a>
Bonds to 100 (tens)	<a href="#">Calc 4.9</a> , <a href="#">Calc 4.10</a>
Add and subtract 1s	<a href="#">Calc 5.1</a> , <a href="#">Calc 5.2</a> , <a href="#">Calc 5.3</a> , <a href="#">Calc 5.5</a>
Add by making 10	<a href="#">Calc 11.1</a>
Add three 1-digit numbers	<a href="#">Calc 12.1</a>
Add to the next 10	<a href="#">Calc 7.1</a>
Add across a 10	<a href="#">Calc 11.3</a> , <a href="#">Calc 11.5</a>
Subtract across 10	<a href="#">Calc 11.2</a>
Subtract from a 10	Adapt <a href="#">Calc 6.4</a> to include subtraction
Subtract a 1-digit number from a 2-digit number (across a 10)	<a href="#">Calc 11.4</a> , <a href="#">Calc 11.5</a>
10 more, 10 less	<a href="#">Calc 5.6</a> , <a href="#">Calc 5.7</a>
Add and subtract 10s	<a href="#">Calc 13.1</a> , <a href="#">Calc 13.2</a> , <a href="#">Calc 13.3</a>

### NC Objectives

- Represent and use number bonds and related subtraction facts within 20 (Y1).
- Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.
- Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s, a 2-digit number and 10s, two 2-digit numbers and adding three 1-digit numbers.
- Compare and order numbers from 0 up to 100; use and = signs.

Add two 2-digit numbers (not across a 10)	<a href="#">Calc 13.5</a>
Add two 2-digit numbers (across a 10)	<a href="#">Calc 13.8</a>
Subtract two 2-digit numbers (not across a 10)	<a href="#">Calc 13.6</a>
Subtract two 2-digit numbers (across a 10)	<a href="#">Calc 13.7</a>
Mixed addition and subtraction	<i>Combine</i> <a href="#">PA 4.9</a> , <a href="#">PA 4.10</a>
Compare number sentences	<a href="#">PA 3.6</a>
Missing number problems	<a href="#">Calc 5.9</a> , <a href="#">Calc 14.8</a>

## Match of White Rose Maths Progression to Numicon Focus Activities

Year 2 | Autumn Term | Small Steps Progression

Week 10 to 12 – Geometry: Shape

Unless otherwise specified, references are to the *Number, Pattern and Calculating 2 Teaching Resource Handbook (NPC 2 TRH)* or the *Geometry, Measurement and Statistics 2 Teaching Resource Handbook (GMS 2 TRH)*. The strands are referred to as follows: PA = Pattern and Algebra; NNS = Numbers and the Number System; Calc = Calculating; Geo = Geometry; Mea = Measurement; SF = Securing Foundations. The first number denotes the Activity Group, while the second number marks the focus activity.

For example, NNS 1.7 refers to Numbers and the Number System 1, focus activity 7.

### Overview

Small step	Numicon focus activities
Recognise 2-D and 3-D shapes	<a href="#">GMS 1: Geo 1.3</a> , <a href="#">Geo 3.2</a>
Count sides on 2-D shapes	<a href="#">Geo 1.1</a> , <a href="#">Geo 1.2</a>
Count vertices on 2-D shapes	<a href="#">Geo 1.1</a> , <a href="#">Geo 1.2</a>
Draw 2-D shapes	<a href="#">Geo 1.2</a> , <a href="#">Geo 1.4</a>
Lines of symmetry on shapes	<a href="#">Geo 3.1</a> , <a href="#">Geo 3.4</a>
Use lines of symmetry to complete shapes	<i>Adapt</i> <a href="#">Geo 3.2</a>
Sort 2-D shapes	<a href="#">Geo 1.3</a> , <a href="#">Geo 1.4</a>
Count faces on 3-D shapes	<a href="#">Geo 2.1</a> , <a href="#">Geo 2.3</a> , <a href="#">Geo 4.3</a> , <a href="#">Geo 4.4</a>
Count edges on 3-D shapes	<a href="#">Geo 2.2</a> , <a href="#">Geo 4.2</a>
Count vertices on 3-D shapes	<a href="#">Geo 2.4</a> , <a href="#">Geo 4.2</a>
Sort 3-D shapes	<a href="#">Geo 4.1</a>
Make patterns with 2-D and 3-D shapes	<i>Adapt and extend</i> <a href="#">Geo 3.3</a>

### NC Objectives

- Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line.
- Compare and sort common 2-D and 3-D shapes and everyday objects.
- Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.
- Identify 2-D shapes on the surface of 3-D shapes.

## Match of White Rose Maths Progression to Numicon Focus Activities

Year 2 | Spring Term | Small Steps Progression

Week 1 to 2 – Measurement: Money

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For example, NNS 1.7 refers to Numbers and the Number System 1, focus activity 7.

### Overview

Small step	Numicon focus activities
Count money – pence	Consider <a href="#">NNS 3.1</a> , if not used previously <a href="#">Mea 2.1</a>
Count money – pounds (notes and coins)	<a href="#">Mea 3.1</a> , <a href="#">Mea 3.2</a>
Count money – pounds and pence	Extend <a href="#">Mea 2.4</a> , to include pounds and pence
Choose notes and coins	<a href="#">Mea 3.3</a>
Make the same amount	<a href="#">Mea 2.2</a> , <a href="#">Mea 2.3</a> , <a href="#">Mea 2.5</a>
Compare amounts of money	Consider <a href="#">NNS 3.4</a> , if not used previously <a href="#">NNS 4.6</a>
Calculate with money	<a href="#">Calc 6.9</a> , <a href="#">Calc 12.6</a> , <a href="#">Calc 12.7</a>
Make a pound	<a href="#">Mea 2.6</a> , <a href="#">Calc 13.9</a>
Find change	<a href="#">Mea 3.4</a> , <a href="#">Calc 13.10</a>
Two-step problems	<a href="#">PA 7.5</a>

### NC Objectives

- Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.
- Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.
- Find different combinations of coins that equal the same amounts of money.

## Match of White Rose Maths Progression to Numicon Focus Activities

Year 2 | Spring Term | Small Steps Progression

Week 3 to 7 – Number: Multiplication and division

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### Overview

Small step	Numicon focus activities
Recognise equal groups	<a href="#">PA 3.1</a> and <a href="#">PA 3.2</a> <i>provide the children with a different way of considering equivalence as they are already familiar with the equal groups represented by Numicon Shapes.</i>
Make equal groups	<a href="#">Calc 8.1</a> , <a href="#">Calc 8.3</a>
Add equal groups	<a href="#">Calc 8.5</a>
Introduce the multiplication symbol	<a href="#">Calc 8.4</a>
Multiplication sentences	<a href="#">Calc 8.6</a> , <a href="#">Calc 8.7</a> , <a href="#">Calc 8.8</a>
Use arrays	<a href="#">Calc 9.8</a> , <a href="#">Calc 9.9</a>
Make equal groups – grouping	<a href="#">Calc 15.3</a> , <a href="#">Calc 15.4</a>
Make equal groups – sharing	<a href="#">NPC 3: Calc 11.1</a> , <a href="#">Calc 11.2</a>
The 2 times-table	<a href="#">Calc 9.4</a>
Divide by 2	<a href="#">Calc 15.1</a> , <a href="#">Calc 15.2</a>
Doubling and halving	<a href="#">Calc 10.1</a> , <a href="#">Calc 10.4</a> , <a href="#">Calc 10.5</a>
Odd and even numbers	<a href="#">PA 4.1</a> , <a href="#">PA 4.2</a> , <a href="#">PA 4.3</a> , <a href="#">PA 4.4</a>
The 10 times-table	<a href="#">Calc 9.3</a>
Divide by 10	<a href="#">Calc 15.6</a>
The 5 times-table	<a href="#">Calc 9.6</a>
Divide by 5	<a href="#">Calc 15.7</a>
The 5 and 10 times-tables	<a href="#">PA 5.10</a> , <a href="#">PA 5.11</a> , <a href="#">PA 5.12</a>

### NC Objectives

- Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers.
- Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals (=) signs.
- Show that the multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.

## Match of White Rose Maths Progression to Numicon Focus Activities

Year 2 | Spring Term | Small Steps Progression

Week 8 to 9 – Measurement: Length and height

Unless otherwise specified, references are to the *Number, Pattern and Calculating 2 Teaching Resource Handbook (NPC 2 TRH)* or the *Geometry, Measurement and Statistics 2 Teaching Resource Handbook (GMS 2 TRH)*. The strands are referred to as follows: PA = Pattern and Algebra; NNS = Numbers and the Number System; Calc = Calculating; Geo = Geometry; Mea = Measurement; SF = Securing Foundations. The first number denotes the Activity Group, while the second number marks the focus activity.

For example, NNS 1.7 refers to Numbers and the Number System 1, focus activity 7.

### Overview

Small step	Numicon focus activities
Measure in centimetres	<a href="#">Mea 1.3</a> , <a href="#">Mea 1.5</a> , <a href="#">Mea 4.2</a> , <a href="#">Mea 4.4</a>
Measure in metres	<a href="#">Mea 4.3</a> , <a href="#">Mea 4.4</a>
Compare lengths and heights	<a href="#">Mea 1.1</a> , <a href="#">Mea 1.6</a> , <a href="#">Mea 4.1</a>
Order lengths and heights	<a href="#">Mea 1.2</a>
Four operations with lengths and heights	<a href="#">Mea 1.3</a> , <a href="#">Mea 1.5</a> , <a href="#">Mea 4.2</a>

### NC Objectives

- Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.
- Compare and order lengths, mass, volume/capacity and record the results using  $>$ ,  $<$  and  $=$ .
- Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures.
- Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.



## Match of White Rose Maths Progression to Numicon Focus Activities

Year 2 | Spring Term | Small Steps Progression

Week 10 to 12 – Measurement: Mass, capacity and temperature

Unless otherwise specified, references are to the *Number, Pattern and Calculating 2 Teaching Resource Handbook (NPC 2 TRH)* or the *Geometry, Measurement and Statistics 2 Teaching Resource Handbook (GMS 2 TRH)*. The strands are referred to as follows: PA = Pattern and Algebra; NNS = Numbers and the Number System; Calc = Calculating; Geo = Geometry; Mea = Measurement; SF = Securing Foundations. The first number denotes the Activity Group, while the second number marks the focus activity.

For example, NNS 1.7 refers to Numbers and the Number System 1, focus activity 7.

### Overview

Small step	Numicon focus activities
Compare mass	<a href="#">Mea 5.1</a>
Measure in grams	<a href="#">Mea 5.4</a>
Measure in kilograms	<a href="#">Mea 5.2</a> , <a href="#">Mea 5.3</a>
Four operations with mass	
Compare volume and capacity	<a href="#">Mea 6.1</a> <i>Only capacity covered</i>
Measure in millilitres	<a href="#">Mea 6.3</a> <i>Volume introduced</i>
Measure in litres	<a href="#">Mea 6.2</a> <i>Only capacity covered</i>
Four operations with volume and capacity	
Temperature	<a href="#">Mea 6.4</a>

### NC Objectives

- Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.
- Compare and order lengths, mass, volume/capacity and record the results using  $>$ ,  $<$  and  $=$ .

## Match of White Rose Maths Progression to Numicon Focus Activities

Year 2 | Summer Term | Small Steps Progression

Week 1 to 3 – Number: Fractions

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For example, NNS 1.7 refers to Numbers and the Number System 1, focus activity 7.

### Overview

Small step	Numicon focus activities
Introduce parts and wholes	<a href="#">Calc 16.1</a>
Equal and unequal parts	Adapt <a href="#">Calc 16.2</a>
Recognise a half	Adapt <a href="#">Calc 16.2</a> , <a href="#">NNS 6.1</a>
Find a half	<a href="#">Calc 16.3</a> , <a href="#">Calc 16.4</a> , <a href="#">NNS 6.2</a> , <a href="#">NNS 6.4</a>
Recognise a quarter	Adapt <a href="#">Calc 16.2</a> , <a href="#">NNS 6.1</a>
Find a quarter	<a href="#">Calc 16.6</a> , <a href="#">NNS 6.2</a>
Recognise a third	Adapt <a href="#">Calc 16.2</a>
Find a third	<a href="#">Calc 16.5</a>
Find the whole	Adapt <a href="#">Calc 16.7</a>
Unit fractions	Simplify <a href="#">NPC 3: NNS 8.2</a>
Non-unit fractions	Simplify <a href="#">NPC 3: NNS 8.3</a>
Recognise the equivalence of a half and 2 quarters	Adapt <a href="#">Calc 16.7</a> - IWB lesson plan models this
Recognise three quarters	Adapt <a href="#">Calc 16.7</a>
Find three quarters	<a href="#">Calc 16.7</a> - IWB lesson plan models this
Count in fractions up to a whole	<a href="#">NNS 6.5</a>

### NC Objectives

- Recognise, find, name and write fractions  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{2}{4}$  and  $\frac{3}{4}$  of a length, shape, set of objects or quantity.
- Write simple fractions for example,  $\frac{1}{2}$  of  $6 = 3$  and recognise the equivalence of  $\frac{2}{4}$  and  $\frac{1}{2}$ .

## Match of White Rose Maths Progression to Numicon Focus Activities

Year 2 | Summer Term | Small Steps Progression

Week 4 to 6 – Measurement: Time

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For example, NNS 1.7 refers to Numbers and the Number System 1, focus activity 7.

### Overview

Small step	Numicon focus activities
O'clock and half past	<a href="#">GMS 1: Mea 6.5</a>
Quarter past and quarter to	<a href="#">Mea 7.1</a> , <a href="#">Mea 7.2</a>
Tell time past the hour	Extend <a href="#">Mea 7.1</a>
Tell time to the hour	Extend <a href="#">Mea 7.2</a>
Tell the time to 5 minutes	<a href="#">Mea 7.4</a>
Minutes in an hour	<a href="#">Mea 7.3</a>
Hours in a day	<a href="#">GMS 1: Mea 6.3</a> Extend <a href="#">Mea 7.5</a>

### NC Objectives

- Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.
- Know the number of minutes in an hour and the number of hours in a day.

## Match of White Rose Maths Progression to Numicon Focus Activities

### Year 2 | Summer Term | Small Steps Progression      Week 7 to 8 – Statistics

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For example, NNS 1.7 refers to Numbers and the Number System 1, focus activity 7.

#### Overview

Small step	Numicon focus activities
Make tally charts	<a href="#">Mea 6.1</a>
Tables	<a href="#">PA 6.10</a> , <a href="#">PA 7.1</a> , <a href="#">Mea 1.3</a>
Block diagrams	<a href="#">Mea 1.1</a>
Draw pictograms (1-1)	<i>Simplify</i> <a href="#">Mea 1.4</a>
Interpret pictograms (1-1)	<i>Simplify</i> <a href="#">Mea 1.4</a>
Draw pictograms (2, 5 and 10)	<a href="#">Mea 1.4</a> <i>extend scale</i>
Interpret pictograms (2, 5 and 10)	<a href="#">Mea 1.4</a> <i>extend scale</i>

#### NC Objectives

- Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.
- Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.
- Ask and answer questions about totalling and comparing categorical data.

## Match of White Rose Maths Progression to Numicon Focus Activities

Year 2 | Summer Term | Small Steps Progression

Week 9 to 10 – Geometry: Position and direction

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### Overview

Small step	Numicon focus activities
Language of position	<a href="#">GMS 1: Geo 5.2</a>
Describe movement	<a href="#">Geo 5.1</a>
Describe turns	<a href="#">Geo 5.2</a>
Describe movement and turns	<a href="#">Geo 5.3</a>
Shape patterns with turns	<a href="#">Geo 5.4</a>

### NC Objectives

- Use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).