

Match of White Rose Scheme of Work v3.0 to Numicon 1 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 1 Teaching Resource Handbook (NPC 1 TRH)* or the *Geometry, Measurement and Statistics 1 Teaching Resource Handbook (GMS 1 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	Number Place value (within 10)					Number Addition and subtraction (within 10)					Geometry Shape	Consolidation
Spring term	Number Place value (within 20)			Number Addition and subtraction (within 20)			Number Place value (within 50)		Measurement Length and height		Measurement Mass and volume	
Summer term	Number Multiplication and division			Number Fractions		Geometry Position and direction	Number Place value (within 100)		Measurement Money	Measurement Time		Consolidation

Match of White Rose Maths Progression to Numicon Focus Activities

Year 1 | Autumn Term | Small Steps Progression

Week 1 to 5 – Number: Place value (within 10)

Unless otherwise specified, references are to the *Number, Pattern and Calculating 1 Teaching Resource Handbook (NPC 1 TRH)* or the *Geometry, Measurement and Statistics 1 Teaching Resource Handbook (GMS 1 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

<u>Small step</u>	<u>Numicon focus activities</u>
Sort objects	SF PA 8.3 , SF PA 9.2
Count objects	SF NNS 1.3 , SF NNS 3.1 , SF NNS 3.2
Count objects from a larger group	NNS 2.1
Represent objects	SF GS 2.5
Recognise numbers as words	<i>Develop from</i> SF NNS 3.4
Count on from any number	<i>Limit to 10 only</i> SF NNS 1.2 , NNS 1.1
1 more	Calc 2.1
Count backwards within 10	SF NNS 1.2
1 less	Calc 2.3
Compare groups by matching	NNS 2.2
Fewer, more, same	PA 1.4
Less than, greater than, equal to	PA 1.1 , PA 1.3 , PA 1.8
Compare numbers	PA 1.2 , PA 1.6
Order objects and numbers	SF GS 1.4 , SF GS 2.2 , SF NNS 5.2
The number line	SF NNS 5.1

NC Objectives

- Count to and across 100, forwards and backwards, beginning with zero or 1, or from any given number.
- Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least.
- Read and write numbers from 1 to 20 in numerals and words.
- Compare numbers using $<$, $>$ and $=$ signs (Y2).

Match of White Rose Maths Progression to Numicon Focus Activities

Year 1 | Autumn Term | Small Steps Progression

Week 6 to 10 – Number: Addition and Subtraction (within 10)

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Overview

Small step	Numicon focus activities
Introduce parts and wholes	<i>Develop from</i> SF GS 2.5 (<i>pegs of two colours</i>)
Part-whole model	Calc 4.6 , Calc 7.5
Write number sentences	SF Calc 11.3 , SF Calc 12.2
Fact families – addition facts	SF Calc 11.6
Number bonds within 10	Calc 4.4
Systematic number bonds within 10	<i>Extend from</i> Calc 4.16 (<i>rods</i>)
Number bonds to 10	Calc 4.19
Addition – add together	SF Calc 4.2 , SF Calc 7.1
Addition – add more	SF Calc 5.1 , SF Calc 11.2
Addition problems	SF Calc 11.1 , Calc 8.5
Find a part	<i>Develop from</i> SF Calc 7.2
Subtraction – find a part	SF Calc 8.2 , Calc 6.6
Fact families – the eight facts	<i>Develop from</i> Calc 7.2
Subtraction – take away/cross out (How many left?)	SF Calc 9.2 , Calc 1.1
Take away (How many left?)	Calc 1.2
Subtraction on a number line	<i>Develop from</i> Calc 2.6
Add or subtract 1 or 2	Calc 2.1 , Calc 2.2 , Calc 2.3 , Calc 2.4 , Calc 2.5 , Calc 2.7

NC Objectives

- Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least.
- Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs.
- Represent and use number bonds and related subtraction facts within 20.
- Add and subtract 1-digit and 2-digit numbers to 20, including zero.

Match of White Rose Maths Progression to Numicon Focus Activities

Year 1 | Autumn Term | Small Steps Progression

Week 11 – Geometry: Shape

Unless otherwise specified, references are to the *Number, Pattern and Calculating 1 Teaching Resource Handbook (NPC 1 TRH)* or the *Geometry, Measurement and Statistics 1 Teaching Resource Handbook (GMS 1 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 and name 3-D shapes	Geo 4.1 , Geo 4.2 , Geo 4.4 , Geo 4.6
Sort 3-D shapes	Geo 3.4 ,
Recognise and name 2-D shapes	Geo 1.3 , Geo 1.4
Sort 2-D shapes	Geo 1.5
Patterns with 2-D and 3-D shapes	Geo 2.3 , Geo 2.4 , Geo 2.5

NC Objectives

- Recognise and name common 2-D and 3-D shapes, including: 2-D shapes [for example, rectangles (including squares), circles and triangles]; 3-D shapes [for example, cuboids (including cubes), pyramids and spheres].

Match of White Rose Maths Progression to Numicon Focus Activities

Year 1 | Spring Term | Small Steps Progression

Week 1 to 3 – Number: Place value (within 20)

Unless otherwise specified, references are to the *Number, Pattern and Calculating 1 Teaching Resource Handbook (NPC 1 TRH)* or the *Geometry, Measurement and Statistics 1 Teaching Resource Handbook (GMS 1 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
Count within 20	<i>Limit to 20 only, SF NNS 1.2, SF NNS 1.3</i>
Understand 10	<i>Variations of SF NNS 3.1</i>
Understand 11, 12 and 13	<i>Develop Calc 8.9, Calc 8.11 to include 13</i>
Understand 14, 15 and 16	NNS 1.3 , NNS 1.4
Understand 17, 18 and 19	Calc 9.1 , Calc 9.2
Understand 20	<i>Adapt Calc 9.8 to include just numbers to 20</i>
1 more and 1 less	Calc 2.2 , Calc 2.4
The number line to 20	SF NNS 7.3
Use a number line to 20	SF NNS 1 , SF NNS 2 , SF NNS 3 , SF NNS 11
Estimate on a number line to 20	
Compare numbers to 20	<i>Adapt SF NNS 6.3 to include the language and symbols of comparison</i>
Order numbers to 20	SF NNS 6.1 , NNS 1.5

NC Objectives

- Count to and across 100, forwards and backwards, beginning with zero or 1, or from any given number.
- Count, read and write numbers to 100 in numerals; count in multiples of 2s, 5s and 10s.
- Given a number, identify 1 more and 1 less.
- Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least.
- Read and write numbers from 1 to 20 in numerals and words.

Match of White Rose Maths Progression to Numicon Focus Activities

Year 1 | Spring Term | Small Steps Progression

Week 4 to 6 – Number: Addition and subtraction (within 20)

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Overview

Small step	Numicon focus activities
Add by counting on within 20	<i>Extend</i> Calc 2.6
Add ones using number bonds	Calc 8.7 , Calc 8.8
Find and make number bonds to 20	Calc 8.6
Doubles	Calc 4.21
Near doubles	Calc 4.22
Subtract ones using number bonds	Calc 9.3 , Calc 9.5
Subtraction – counting back	<i>Extend</i> Calc 9.6
Subtraction – finding the difference	SF Calc 10.2 , SF Calc 10.3 , Calc 6.3 , Calc 6.4
Related facts	<i>Extend</i> Calc 7.3
Missing number problems	Calc 8.2

NC Objectives

- Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs.
- Represent and use number bonds and related subtraction facts within 20.
- Add and subtract 1-digit and 2-digit numbers to 20, including zero.
- Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = ? - 9$.

Match of White Rose Maths Progression to Numicon Focus Activities

Year 1 | Spring Term | Small Steps Progression

Week 7 to 8 – Number: Place value (within 50)

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Overview

Small step	Numicon focus activities
Count from 20 to 50	Extend SF NNS 1.2 and SF NNS 11.1 to 50
20, 30, 40 and 50	NNS 3.4 , NNS 3.5 Restrict to 50
Count by making groups of tens	NNS 2.2 , NNS 3.1
Groups of tens and ones	NNS 4.1 , NNS 4.2
Partition into tens and ones	NNS 4.3 , NNS 4.7
The number line to 50	NNS 4.4 , NNS 4.6
Estimate on a number line to 50	NNS 3.3
1 more, 1 less	NNS 3.2 Extend Calc 2.1 , Calc 2.3 ,

NC Objectives

- Count to and across 100, forwards and backwards, beginning with zero or 1, or from any given number.
- Count, read and write numbers to 100 in numerals; count in multiples of 2s, 5s and 10s.
- Given a number, identify 1 more and 1 less.
- Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least.

Match of White Rose Maths Progression to Numicon Focus Activities

Year 1 | Spring Term | Small Steps Progression

Week 9 to 10 – Measurement: Length and height

Unless otherwise specified, references are to the *Number, Pattern and Calculating 1 Teaching Resource Handbook (NPC 1 TRH)* or the *Geometry, Measurement and Statistics 1 Teaching Resource Handbook (GMS 1 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 lengths and heights	Mea 1.1 , Mea 1.2
Measure length using objects	Mea 1.3
Measure length in centimetres	Extend Mea 1.3 using Cuisenaire rods

NC Objectives

- Compare, describe and solve practical problems for: lengths and height; mass/weight; capacity and volume; time.
- Measure and begin to record the following: lengths and heights; mass/weight; capacity and volume; time.

Match of White Rose Maths Progression to Numicon Focus Activities

Year 1 | Spring Term | Small Steps Progression

Week 11 to 12 – Measurement: Mass and volume

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Overview

Small step	Numicon focus activities
Heavier and lighter	Mea 4.1 , Mea 4.2
Measure mass	Mea 4.4
Compare mass	Mea 4.3
Full and empty	Mea 5.1
Compare volume	Mea 5.2
Measure capacity	Mea 5.4
Compare capacity	Mea 5.3

NC Objectives

- Compare, describe and solve practical problems for: lengths and heights; mass/weight; capacity and volume; time.
- Measure and begin to record the following: lengths and heights; mass/weights; capacity and volume; time.

Match of White Rose Maths Progression to Numicon Focus Activities

Year 1 | Summer Term | Small Steps Progression

Week 1 to 3 – Number: Multiplication and division

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Overview

Small step	Numicon focus activities
Count in 2s	NNS 3.7
Count in 10s	NNS 3.3 , NNS 3.4 , NNS 3.5
Count in 5s	NNS 3.8
Recognise equal groups	Calc 3.7
Add equal groups	NNS 3.1 , NNS 3.2
Make arrays	Adapt NNS 2.1 or use NPC 2: Calc 9.8
Make doubles	Calc 4.21
Make equal groups – grouping	Adapt NNS 2.2
Make equal groups - sharing	Adapt Calc 5.5

NC Objectives

- Count, read and write numbers to 100 in numerals; count in multiples of 2s, 5s and 10s.
- Solve one step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.

Match of White Rose Maths Progression to Numicon Focus Activities

Year 1 | Summer Term | Small Steps Progression

Week 4 to 5 – Number: Fractions

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Overview

Small step	Numicon focus activities
Recognise a half of an object or a shape	Calc 5.1 ,
Find a half of an object or a shape	Calc 5.2 , Calc 5.3 , Calc 5.4 ,
Recognise a half of a quantity	<i>Set up similar activities as those illustrated using Numicon pegs and counters</i>
Find a half of a quantity	Calc 5.5
Recognise a quarter of an object or a shape	Calc 5.1 ,
Find a quarter of an object or a shape	Calc 5.2 , Calc 5.3 , Calc 5.4 ,
Recognise a quarter of a quantity	<i>Set up similar activities as those illustrated using Numicon pegs and counters</i>
Find a quarter of a quantity	Calc 5.5

NC Objectives

- Recognise, find and name a half as one of two equal parts of an object, shape or quantity.
- Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.

Match of White Rose Maths Progression to Numicon Focus Activities

Year 1 | Summer Term | Small Steps Progression

Week 6 – Geometry: Position and direction

Unless otherwise specified, references are to the *Number, Pattern and Calculating 1 Teaching Resource Handbook (NPC 1 TRH)* or the *Geometry, Measurement and Statistics 1 Teaching Resource Handbook (GMS 1 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
Describe turns	Geo 5.3 , Geo 5.4 , Geo 5.6
Describe position – left and right	Geo 5.1 , Geo 5.2
Describe position – forwards and backwards	Geo 5.5 , Geo 5.7 , Geo 5.8
Describe position – above and below	Geo 5.1 , Geo 5.2
Ordinal numbers	Adapt SF PA 2.3 and SF PA 3.1 to use the specific language

NC Objectives

- Describe position, direction and movement, including whole, half, quarter and three-quarter turns.
- Use the language of position, direction and motion, including: left and right, top, middle and bottom, on top of, in front of, above, between, around, near, close and far, up and down, forwards and backwards, inside and outside (**non-statutory guidance**)
- Practise counting (1, 2, 3...), ordering (for example, 1st, 2nd, 3rd ...) (**non-statutory guidance**)

Match of White Rose Maths Progression to Numicon Focus Activities

Year 1 | Summer Term | Small Steps Progression

Week 7 to 8 – Number: Place value (within 100)

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Overview

Small step	Numicon focus activities
Count from 50 to 100	Extend SF NNS 1.2 and SF NNS 11.1 to 100
10s to 100	NNS 3.2 , NNS 3.4
Partition into 10s and 1s	Extend number size if appropriate Calc 9.2 , Calc 9.8
Number line to 100	NNS 3.3
One more one less	Extend Calc 2.1 , Calc 2.3 ,
Compare numbers with the same 10s	Adapt NNS 4.7
Compare any two numbers	Adapt NNS 4.7

NC Objectives

- Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.
- Count, read and write numbers to 100 in numerals; count in multiples of 2s, 5s and 10s.
- Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than (fewer), less than, most, least.

Match of White Rose Maths Progression to Numicon Focus Activities

Year 1 | Summer Term | Small Steps Progression Week 9 – Measurement: Money

Unless otherwise specified, references are to the *Number, Pattern and Calculating 1 Teaching Resource Handbook (NPC 1 TRH)* or the *Geometry, Measurement and Statistics 1 Teaching Resource Handbook (GMS 1 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
Unitising	Mea 2.1 , Mea 2.2 , Mea 2.4
Recognise coins	GMS 2: Mea 2.2 , GMS 2: Mea 2.5 , GMS 2: Mea 2.6 , GMS 2: Mea 3.1
Recognise notes	GMS 2: Mea 3.2 , GMS 2: Mea 3.3
Count in coins	<i>Extend SF NNS 11.1 to include other coins, Mea 2.3, Mea 2.5, NNS 3.2, Calc 3.2, Calc 3.6</i> GMS 2: Mea 2.1

NC Objectives

- Recognise and know the value of different denominations of coins and notes.
- Count, read and write numbers to 100 in numerals; count in multiples of 2s, 5s and 10s.

Match of White Rose Maths Progression to Numicon Focus Activities

Year 1 | Summer Term | Small Steps Progression

Week 10 to 11 – Measurement: Time

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Overview

Small step	Numicon focus activities
Before and after	Mea 3.1 , Mea 6.2
Days of the week	Mea 3.2
Months of the year	Mea 3.3
Tell the time to the hour	Mea 6.1 , Mea 6.3 , Mea 6.5
Tell the time to the half hour	Mea 6.4 , Mea 6.5

NC Objectives

- Compare, describe and solve practical problems for time (for example, quicker, slower, earlier, later).
- Measure and begin to record the following:
 - Time (hours, minutes, seconds)
 - Sequence events in chronological order using language (for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening).
- Recognise and use language relating to dates, including days of the week, weeks, months and years.
- Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.