Match of White Rose Scheme of Work v3.0 to Numicon 4 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 4 Teaching Resource Handbook (NPC 4 TRH)* or the *Geometry, Measurement and Statistics 4 Teaching Resource Handbook (GMS 4 TRH)*.

<table>
<tr><th></th><th>Week 1</th><th>Week 2</th><th>Week 3</th><th>Week 4</th><th>Week 5</th><th>Week 6</th><th>Week 7</th><th>Week 8</th><th>Week 9</th><th>Week 10</th><th>Week 11</th><th>Week 12</th></tr>
<tr><td>Autumn term</td><td colspan="4">Number
Place value</td><td colspan="3">Number
Addition and subtraction</td><td>Measurement
Area</td><td colspan="3">Number
Multiplication and division A</td><td>Consolidation</td></tr>
<tr><td>Spring term</td><td colspan="3">Number
Multiplication and division B</td><td colspan="2">Measurement
Length and perimeter</td><td colspan="3">Number
Fractions</td><td colspan="3">Number
Decimals A</td></tr>
<tr><td>Summer term</td><td colspan="2">Number
Decimals B</td><td colspan="2">Measurement
Money</td><td colspan="2">Measurement
Time</td><td>Consolidation</td><td colspan="2">Geometry
Shape</td><td>Statistics</td><td colspan="2">Geometry
Position and direction</td></tr>
</table>

Match of White Rose Maths Progression to Numicon Focus Activities
Year 4 | Autumn Term | Small Steps Progression Week 1 to 4 – Number: Place value

Unless otherwise specified, references are to the *Number, Pattern and Calculating 4 Teaching Resource Handbook (NPC 4 TRH)* or the *Geometry, Measurement and Statistics 4 Teaching Resource Handbook (GMS 4 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
Represent numbers to 1,000	NNS 1.3
Partition numbers to 1,000	Calc 3.2, Calc 3.6
Number line to 1,000	NNS 1.2
Thousands	NNS 1.4
Represent numbers to 10,000	NNS 1.5
Partition numbers to 10,000	*Adapt* NNS 1.4
Flexible partitioning of numbers to 10,000	*Adapt* NNS 1.5
Find 1, 10, 100, 1,000 more or less	NNS 1.6
Number line to 10,000	*Extend* NNS 2.5
Estimate on a number line to 10,000	*Adapt* NNS 2.3 *to include recording on a number line*
Compare numbers to 10,000	NNS 2.1, NNS 2.4
Order numbers to 10,000	NNS 2.2, NNS 2.6
Roman numerals	NNS 1.7
Round to the nearest 10	NNS 3.1, NNS 3.2
Round to the nearest 100	NNS 3.3, NNS 3.4
Round to the nearest 1,000	NNS 3.5
Round to the nearest 10, 100 or 1,000	NNS 3.6

NC Objectives

- Read and write numbers up to 1,000 in numerals and words **(Y3)**
- Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) **(Y3)**
- Count in multiples of 6, 7, 9, 25 and 1000.
- Find 1000 more or less than a given number.
- Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones).
- Order and compare numbers beyond 1000.
- Identify, represent and estimate numbers using different representations.
- Round any number to the nearest 10, 100 or 1000.
- Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.

Match of White Rose Maths Progression to Numicon Focus Activities

Year 4 | Autumn Term | Small Steps Progression Week 5 to 7 – 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
Add and subtract 1s, 10s, 100s and 1,000s	Calc 1.1, Calc 3.1, Calc 4.1
Add up to two 4-digit numbers – no exchange	
Add two 4-digit numbers – one exchange	NPC 3: Calc 13.4
Add two 4-digit numbers – more than one exchange	Calc 8.2, Calc 8.3, Calc 8.4
Subtract two 4-digit numbers – no exchange	NPC 3: Calc 14.5
Subtract two 4-digit numbers – one exchange	Calc 9.2
Subtract two 4-digit numbers – more than one exchange	Calc 9.3, Calc 9.4
Efficient subtraction	Calc 9.1
Estimate answers	Calc 8.1, Calc 8.6, Calc 8.7
Checking strategies	*Adapt* PA 2.8, Calc 9.6

NC Objectives

- Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.
- Estimate and use inverse operations to check answers to a calculation.
- Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 4 | Autumn Term | Small Steps Progression Week 8 – Measurement: Area

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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
What is area	Mea 6.4
Count squares	Mea 6.5
Make shapes	Calc 5.6
Compare areas	Mea 6.6

NC Objectives

- Find the area of rectilinear shapes by counting squares.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 4 | Autumn Term | Small Steps Progression Week 9 to 11 – Number: Multiplication and division A

Unless otherwise specified, references are to the *Number, Pattern and Calculating 4 Teaching Resource Handbook (NPC 4 TRH)* or the *Geometry, Measurement and Statistics 4 Teaching Resource Handbook (GMS 4 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
Multiples of 3	Calc 5.5, Calc 6.4
Multiply and divide by 6	*Adapt* Calc 5.6, Calc 6.3, Calc 6.6
6 times-table and division facts	Calc 5.5, Calc 6.4
Multiply and divide by 9	Calc 5.6
9 times-table and division facts	Calc 5.5, Calc 6.4
The 3, 6 and 9 times-tables	*Adapt* PA 1.2
Multiply and divide by 7	*Adapt* Calc 5.6
7 times-table and division facts	Calc 5.5, Calc 6.4
11 times-table and division facts	Calc 5.5, Calc 6.4
12 times-table and division facts	Calc 5.5, Calc 6.4
Multiply by 1 and 0	NPC 3: Calc 5.1
Divide a number by 1 and itself	Calc 6.3
Multiply three numbers	PA 3.8

NC Objectives

- Count in multiples of 6, 7, 9 and 1000.
- Recall and use multiplication and division facts for multiplication tables up to 12 × 12.
- Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.
- Recognise and use factor pairs and commutativity in mental calculations.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 4 | Spring Term | Small Steps Progression Week 1 to 3 – Number: Multiplication and division B

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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
Factor pairs	PA 4.6
Use factor pairs	PA 4.5
Multiply by 10	Calc 7.1, Calc 7.2
Multiply by 100	Calc 7.7
Divide by 10	Calc 7.3
Divide by 100	Calc 7.7
Related facts – multiplication and division	PA 2.4, Calc 7.6, Calc 7.8, Calc 11.3
Informal written methods for multiplication	Calc 10.2, Calc 10.3
Multiply a 2-digit number by a 1-digit number	Calc 10.5, Calc 12.2, Calc 12.3
Multiply a 3-digit number by a 1-digit number	Calc 12.4, Calc 12.5, Calc 12.6
Divide a 2-digit number by a 1-digit number (1)	Calc 11.4, Calc 11.6
Divide a 2-digit number by a 1-digit number (2)	Calc 13.1, Calc 13.2
Divide a 3-digit number by a 1-digit number	Calc 13.3, Calc 13.4, Calc 13.5
Correspondence problems	Calc 5.8, Calc 6.6
Efficient multiplication	Calc 10.4, Calc 12.1

NC Objectives

- Recall and use multiplication and division facts for multiplication tables up to 12 × 12.
- Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 **(Y5)**.
- Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.
- Recognise and use factor pairs and commutativity in mental calculations.
- Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.
- Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as *n* objects are connected to *m* objects.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 4 | Spring Term | Small Steps Progression Week 4 to 5 – Measurement: Length and perimeter

Unless otherwise specified, references are to the *Number, Pattern and Calculating 4 Teaching Resource Handbook (NPC 4 TRH)* or the *Geometry, Measurement and Statistics 4 Teaching Resource Handbook (GMS 4 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 kilometres and metres	Mea 3.6
Equivalent lengths (kilometres and metres)	*Adapt* Mea 3.4
Perimeter on a grid	Mea 6.3
Perimeter of a rectangle	Mea 6.1
Perimeter of rectilinear shapes	Mea 6.2
Find missing lengths in rectilinear shapes	
Calculate the perimeter of rectilinear shapes	Mea 6.6
Perimeter of regular polygons	Mea 6.1
Perimeter of polygons	Mea 6.1

NC Objectives

- Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.
- Convert between different units of measure (for example, kilometre to metre).

Year 4 ready-to-progress criteria

- 4G–2 Identify regular polygons, including equilateral triangles and squares, as those in which the side-lengths are equal and the angles are equal. Find the perimeter of regular and irregular polygons.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 4 | Spring Term | Small Steps Progression Week 6 to 9 – Number: Fractions

Unless otherwise specified, references are to the *Number, Pattern and Calculating 4 Teaching Resource Handbook (NPC 4 TRH)* or the *Geometry, Measurement and Statistics 4 Teaching Resource Handbook (GMS 4 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
Understand the whole	NPC 3: NNS 7.2
Count beyond 1	NNS 5 *Practice and discussion*
Partition a mixed number	*Extend* NPC 3: NNS 7.2
Number lines with mixed numbers	NPC 5: NNS 2 *Practice and discussion*
Compare and order mixed numbers	*Extend* NNS 5.3 *and* NNS 5.4 *to include mixed numbers*
Understand improper fractions	NPC 5: NNS 2.1
Convert mixed numbers to improper fractions	NPC 5: NNS 2.4
Convert improper fractions to mixed numbers	NPC 5: NNS 2.2, NPC 5: NNS 2.3
Equivalent fractions on a number line	NPC 5: NNS 2.7
Equivalent fraction families	NNS 5.2, NNS 5.4
Add two or more fractions	NNS 5.5
Add fractions and mixed numbers	NNS 5.6
Subtract two fractions	NNS 5.5
Subtract from whole amounts	NNS 5.5
Subtract from mixed numbers	NNS 5.6

NC Objectives

- Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators **(Y3).**
- Recognise and show, using diagrams, families of common equivalent fractions.
- Add and subtract fractions with the same denominator.

Year 4 ready-to-progress criteria

- 4F–1 Reason about the location of mixed numbers in the linear number system.
- 4F–2 Convert mixed numbers to improper fractions and vice versa.
- 4F–3 Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 4 | Spring Term | Small Steps Progression Week 10 to 12 – Number: Decimals A

Unless otherwise specified, references are to the *Number, Pattern and Calculating 4 Teaching Resource Handbook (NPC 4 TRH)* or the *Geometry, Measurement and Statistics 4 Teaching Resource Handbook (GMS 4 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
Tenths as fractions	NNS 6.1, NNS 6.2
Tenths as decimals	NNS 6.4, NNS 6.5
Tenths on a place value chart	NNS 6.6
Tenths on a number line	NNS 6.8
Divide a 1-digit number by 10	NNS 7.5
Divide a 2-digit number by 10	*Adapt* Calc 7.5 *to include decimal quotients*
Hundredths as fractions	NNS 8.1, NNS 8.2
Hundredths as decimals	NNS 8.3, NNS 8.4
Hundredths on a place value chart	NNS 8.5
Divide a 1- or 2-digit number by 100	NNS 7.5

NC Objectives

- Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing 1-digit numbers or quantities by 10 **(Y3).**
- Recognise and show, using diagrams, families of common equivalent fractions.
- Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.
- Recognise and write decimal equivalents of any number of tenths or hundredths.
- Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.
- Compare numbers with the same number of decimal places up to two decimal places.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 4 | Summer Term | Small Steps Progression Week 1 to 2 – Number: Decimals B

Unless otherwise specified, references are to the *Number, Pattern and Calculating 4 Teaching Resource Handbook (NPC 4 TRH)* or the *Geometry, Measurement and Statistics 4 Teaching Resource Handbook (GMS 4 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
Make a whole with tenths	NNS 6.5
Make a whole with hundredths	NNS 8.4
Partitioning Decimals	NNS 6.6, NNS 8.3
Flexible Partitioning Decimals	*Adapt* NNS 8.5
Compare decimals	NNS 6.7, NNS 8.7
Order decimals	NNS 6.8, NNS 8.8
Round to the nearest whole	NNS 6.9
Halves and quarters as decimals	NNS 6.3, NNS 6.4, *Adapt* NNS 8.4

NC Objectives

- Recognise and write decimal equivalents of any number of tenths or hundredths.
- Solve simple measure and money problems involving fractions and decimals to 2 decimal places.
- Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$.
- Round decimals with one decimal place to the nearest whole number.
- Compare numbers with the same number of decimal places up to two decimal places.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 4 | Summer Term | Small Steps Progression Week 3 to 4 – Measurement: Money

Unless otherwise specified, references are to the *Number, Pattern and Calculating 4 Teaching Resource Handbook (NPC 4 TRH)* or the *Geometry, Measurement and Statistics 4 Teaching Resource Handbook (GMS 4 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
Write money using decimals	NNS 8.6, Mea 2.1
Convert between pounds and pence	GMS 3: Mea 4.1
Compare amounts of money	Mea 2.6
Estimate with money	Mea 2.2
Calculate with money	Calc 3.2, Calc 8.7, Calc 9.5, Mea 2.3, Mea 2.5
Solve problems with money	Calc 14.1, Calc 14.2, Calc 14.3, Calc 14.4

NC Objectives

- Estimate, compare and calculate in different measures, including money in pounds and pence.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 4 | Summer Term | Small Steps Progression Week 5 to 6 – Measurement: Time

Unless otherwise specified, references are to the *Number, Pattern and Calculating 4 Teaching Resource Handbook (NPC 4 TRH)* or the *Geometry, Measurement and Statistics 4 Teaching Resource Handbook (GMS 4 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
Years, months, weeks and days	GMS 3: Mea 2.3, GMS 3: Mea 2.4
Hours, minutes and seconds	Mea 1.4, GMS 3: Mea 2.3
Convert to the 24 hour clock	Mea 1.6
Convert from the 24 hour clock	Mea 1.6
Convert between analogue and digital times	*Adapt* Mea 1.5 *or* Mea 1.7

NC Objectives

- Read, write and convert time between analogue and digital 12- and 24-hour clocks.
- Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 4 | Summer Term | Small Steps Progression Week 8 to 9 – Geometry: Shape

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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
Understand angles as turns	GMS 3: Geo 2.1
Identify angles	Geo 3.1, Geo 3.2
Compare and order angles	Geo 3.3, Geo 3.4
Triangles	Geo 1.1, Geo 1.4
Quadrilaterals	Geo 1.2, Geo 1.3, Geo 1.4
Polygons	Geo 3.2
Lines of symmetry	Geo 2.1, Geo 2.3, Geo 2.4, Geo 2.5
Complete a symmetric figure	Geo 2.2, Geo 2.6

NC Objectives

- *Recognise angles as a property of shape or a description of a turn (**Y3**)*
- Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.
- Identify acute and obtuse angles and compare and order angles up to two right angles by size.
- Identify lines of symmetry in 2-D shapes presented in different orientations.
- Complete a simple symmetric figure with respect to a specific line of symmetry.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 4 | Summer Term | Small Steps Progression Week 10 – 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
Interpret charts	Mea 3.2, Mea 3.5, Mea 5.2
Comparison, sum and difference	Mea 1.5, Mea 1.7, Mea 2.3
Interpret line graphs	Mea 1.8
Draw line graphs	Mea 1.8

NC Objectives

- Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
- Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 4 | Summer Term | Small Steps Progression Week 11 to 12 – Geometry: Position and direction

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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
Describe position using coordinates	Geo 4.1
Plot coordinates	Geo 4.2
Draw 2-D shapes on a grid	Geo 4.3, Geo 4.4
Translate on a grid	GMS 5: Geo 2.3
Describe translation on a grid	GMS 5: Geo 2.4

NC Objectives

- Describe positions on a 2-D grid as coordinates in the first quadrant.
- Describe movements between positions as translations of a given unit to the left/right and up/down.
- Plot specified points and draw sides to complete a given polygon.