Match of White Rose Scheme of Work v3.0 to Numicon 6 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 6 Teaching Resource Handbook (NPC 6 TRH)* or the *Geometry, Measurement and Statistics 6 Teaching Resource Handbook (GMS 6 TRH)*.

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Match of White Rose Maths Progression to Numicon Focus Activities
Year 6 | Autumn Term | Small Steps Progression Week 1 to 2 – Number: Place value

Unless otherwise specified, references are to the *Number, Pattern and Calculating 6 Teaching Resource Handbook (NPC 6 TRH)* or the *Geometry, Measurement and Statistics 6 Teaching Resource Handbook (GMS 6 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, PfFT = Preparing for Formal Testing. 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 1,000,000	NPC 5: NNS 1.3
Numbers to 10,000,000	NNS 1.1
Read and write numbers to 10,000,000	NNS 1.2
Powers of 10	*Adapt for integers only* NNS 1.4
Number line to 10,000,000	
Compare and order any integers	NNS 1.1
Round any integer	NNS 1.3, Calc 3.1
Negative numbers	Calc 1.1, Calc 1.2, Calc 1.3, PfFT 3.6

NC Objectives

- Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.
- Round any whole number to a required degree of accuracy.
- Use negative numbers in context, and calculate intervals across zero.
- Solve number and practical problems that involve all of the above.

Match of White Rose Maths Progression to Numicon Focus Activities

Year 6 | Autumn Term | Small Steps Progression Week 3 to 7 – Number: Addition, subtraction, multiplication and division

Unless otherwise specified, references are to the *Number, Pattern and Calculating 6 Teaching Resource Handbook (NPC 6 TRH)* or the *Geometry, Measurement and Statistics 6 Teaching Resource Handbook (GMS 6 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, PfFT = Preparing for Formal Testing. 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
Add and subtract integers	Calc 1.4, Calc 1.5
Common factors	PA 1.1, PA 1.5
Common multiples	PA 1.1, PA 1.4
Rules of divisibility	PA 4.5
Primes to 100	PA 1.2, NPC 5: PA 3.7
Square and cube numbers	NPC 5: PA 4.4, NPC 5: PA 4.7
Multiply up to a 4-digit number by a 2-digit number	Calc 9.3, PfFT 3.2
Solve problems with multiplication	Calc 9.5
Short division	NPC 5: Calc 4.6, NPC 5: Calc 13.2
Division using factors	Calc 2.5, PA 1.3
Introduction to long division	Calc 10.2, Calc 10.3, Calc 10.4, PfFT 3.1
Long division with remainders	Calc 10.5, Calc 10.6
Solve problems with division	Calc 10.1
Solve multi-step problems	Calc 6.1, Calc 6.2
Order of operations	Calc 6.3, Calc 6.4, Calc 6.5, PfFT 3.5
Mental calculation and estimation	Calc 3.2, Calc 3.6
Reason from known facts	PA 3.1, Calc 2.1, Calc 2.2, Calc 2.3

NC Objectives

- Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.
- Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.
- Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.
- Perform mental calculations, including with mixed operations and large numbers.
- Identify common factors, common multiples and prime numbers.
- Use their knowledge of the order of operations to carry out calculations involving the four operations.
- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
- Solve problems involving addition, subtraction, multiplication and division.
- Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 6 | Autumn Term | Small Steps Progression Week 8 to 9 – Number: Fractions A

Unless otherwise specified, references are to the *Number, Pattern and Calculating 6 Teaching Resource Handbook (NPC 6 TRH)* or the *Geometry, Measurement and Statistics 6 Teaching Resource Handbook (GMS 6 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, PfFT = Preparing for Formal Testing. 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
Equivalent fractions and simplifying	NNS 2.3
Equivalent fractions on a number line	*Adapt values* NNS 2.4
Compare and order (denominator)	NNS 2.1, NNS 2.2
Compare and order (numerator)	*Incorporated within the above activities*
Add and subtract simple fractions	Calc 11.1
Add and subtract any two fractions	Calc 11.2, Calc 11.4
Add mixed numbers	Calc 11.2
Subtract mixed numbers	Calc 11.2
Multi-step problems	Calc 11.3, Calc 11.4, Calc 11.5

NC Objectives

- Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.
- Compare and order fractions, including fractions > 1.
- Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
- Identify common factors, common multiples and prime numbers.
- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
- Solve problems involving addition, subtraction, multiplication and division.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 6 | Autumn Term | Small Steps Progression Week 10 to 11 – Number: Fractions 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
Multiply fractions by integers	NPC 5: Calc 15.5
Multiply fractions by fractions	Calc 12.1, Calc 12.2, Calc 12.3
Divide a fraction by an integer	Calc 12.4
Divide any fraction by an integer	Calc 12.4
Mixed questions with fractions	PfFT 4.2, PfFT 4.3
Fraction of an amount	NPC 5: Calc 4.7
Fraction of an amount – find the whole	Calc 11.5

NC Objectives

- Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
- Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams (**Y5**).
- Multiply simple pairs of proper fractions, writing the answer in its simplest form.
- Divide proper fractions by whole numbers.
- Solve problems involving addition, subtraction, multiplication and division.
- Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$].

Match of White Rose Maths Progression to Numicon Focus Activities
Year 6 | Autumn Term | Small Steps Progression Week 12 – Measurement: Converting units

Unless otherwise specified, references are to the *Number, Pattern and Calculating 6 Teaching Resource Handbook (NPC 6 TRH)* or the *Geometry, Measurement and Statistics 6 Teaching Resource Handbook (GMS 6 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, PfFT = Preparing for Formal Testing. 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
Metric measures	
Convert metric measures	GMS 5: Mea 1.1
Calculate with metric measures	Calc 13.1
Miles and kilometres	Mea 1.4
Imperial measures	GMS 5: Mea 1.2, GMS 5: Mea 1.3, GMS 5: Mea 1.5

NC Objectives

- Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.
- Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 6 | Spring Term | Small Steps Progression Week 1 to 2 – Number: Ratio

Unless otherwise specified, references are to the *Number, Pattern and Calculating 6 Teaching Resource Handbook (NPC 6 TRH)* or the *Geometry, Measurement and Statistics 6 Teaching Resource Handbook (GMS 6 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, PfFT = Preparing for Formal Testing. 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
Add or multiply?	*Adapt* NPC 5: GS 2
Use ratio language	NPC 5: Calc 10.2
Introduction to the ratio symbol	Calc 7.1
Ratio and fractions	Calc 7.2
Scale drawing	Calc 7.3
Use scale factors	Mea 4.4, Mea 4.5
Similar shapes	Mea 4.4
Ratio problems	Calc 7.1, Calc 7.2
Proportion problems	Calc 7.4, Calc 7.5
Recipes	NPC 5: Calc 10.1, Calc 3.4

NC Objectives

- Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.
- Solve problems involving similar shapes where the scale factor is known or can be found.
- Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 6 | Spring Term | Small Steps Progression Week 3 to 4 – Number: Algebra

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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
1-step function machines	PA 4.4
2-step function machines	PA 4.4
Form expressions	PA 3.2
Substitution	PA 3.2
Formulae	PA 4.1, PA 4.3
Form equations	PA 4.6
Solve 1-step equations	PA 3.4
Solve 2-step equations	PA 3.4
Find pairs of values	PA 3.3
Solve problems with two unknowns	PA 3.5

NC Objectives

- Use simple formulae.
- Generate and describe linear number sequences.
- Express missing number problems algebraically.
- Find pairs of numbers that satisfy an equation with two unknowns.
- Enumerate possibilities of combinations of two variables.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 6 | Spring Term | Small Steps Progression Week 5 to 6 – Number: Decimals

Unless otherwise specified, references are to the *Number, Pattern and Calculating 6 Teaching Resource Handbook (NPC 6 TRH)* or the *Geometry, Measurement and Statistics 6 Teaching Resource Handbook (GMS 6 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, PfFT = Preparing for Formal Testing. 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
Place value within 1	*Extend* NPC 5: NNS 3.2
Place value – integers and decimals	NNS 1.4
Round decimals	*Extend* NPC 5: NNS 4.6
Add and subtract decimals	Calc 4.1, Calc 4.2, Calc 4.4, Calc 8.5
Multiply by 10, 100 and 1,000	Calc 2.4
Divide by 10, 100 and 1,000	Calc 2.4
Multiply decimals by integers	Calc 9.2, Calc 9.4
Divide decimals by integers	Calc 10.7
Multiply and divide decimals in context	Calc 13.1

NC Objectives

- Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.
- Multiply one-digit numbers with up to two decimal places by whole numbers.
- Use written division methods in cases where the answer has up to two decimal places.
- Solve problems which require answers to be rounded to specified degrees of accuracy.
- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
- Solve problems involving addition, subtraction, multiplication and division.

Match of White Rose Maths Progression to Numicon Focus Activities

Year 6 | Spring Term | Small Steps Progression Week 7 to 8 – Number: Fractions, decimals and percentages

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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
Decimal and fraction equivalents	*Simplify* Calc 5.1 no %, Calc 8.2, Calc 8.3, Calc 8.4
Fractions as division	Calc 8.1
Understand percentages	NPC 5: Calc 11.1, NPC 5: Calc 11.3
Fractions to percentages	NPC 5: NNS 7.1, Calc 5.2
Equivalent fractions, decimals and percentages	Calc 5.1, PfFT 4.4
Order fractions, decimals and percentages	*Order the values in* Calc 5.1
Percentage of an amount – one step	NPC 5: NNS 7.3
Percentage of an amount – multi-step	NPC 5: NNS 7.2, NPC 5: NNS 7.5
Percentages – missing values	*Further challenges in* Calc 5.3, Calc 5.4, Calc 5.5

NC Objectives

- Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.
- Compare and order fractions, including fractions > 1.
- Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$].
- Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
- Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 6 | Spring Term | Small Steps Progression Week 9 to 10 – Measurement: Area, perimeter and volume

Unless otherwise specified, references are to the *Number, Pattern and Calculating 6 Teaching Resource Handbook (NPC 6 TRH)* or the *Geometry, Measurement and Statistics 6 Teaching Resource Handbook (GMS 6 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, PfFT = Preparing for Formal Testing. 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
Shapes – same area	*GMS 4: Mea 6.6*
Area and perimeter	*GMS 5: Mea 3.3*, *GMS 5: Mea 3.4*, *GMS 5: Mea 5.3*, *GMS 5: Mea 5.4*
Area of a triangle – counting squares	
Area of a right-angled triangle	Mea 2.2
Area of any triangle	Mea 2.3
Area of a parallelogram	Mea 2.4
Volume – counting cubes	Mea 4.1
Volume of a cuboid	Mea 4.1, Mea 4.2

NC Objectives

- Recognise that shapes with the same areas can have different perimeters and vice versa.
- Recognise when it is possible to use formulae for area and volume of shapes.
- Calculate the area of parallelograms and triangles.
- Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units [for example, mm^3 and km^3].

Match of White Rose Maths Progression to Numicon Focus Activities
Year 6 | Spring Term | Small Steps Progression Week 11 to 12 – 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
Line graphs	Mea 1.3, PA 2.1
Dual bar charts	
Read and interpret pie charts	Mea 1.5, Calc 7.4
Pie charts with percentages	Mea 1.5
Draw pie charts	Mea 1.5
The mean	Mea 1.1, Mea 1.2

NC Objectives

- Interpret and construct pie charts and line graphs and use these to solve problems.
- Calculate and interpret the mean as an average.

Match of White Rose Maths Progression to Numicon Focus Activities
Year 6 | Summer Term | Small Steps Progression Week 1 to 3 – Geometry: Shape

Unless otherwise specified, references are to the *Number, Pattern and Calculating 6 Teaching Resource Handbook (NPC 6 TRH)* or the *Geometry, Measurement and Statistics 6 Teaching Resource Handbook (GMS 6 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, PfFT = Preparing for Formal Testing. 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 and classify angles	GMS 5: Geo 1.2, Geo 1.3, Geo 1.4
Calculate angles	GMS 5: Geo 1.5, Geo 3.1, Geo 3.2, Geo 3.3, Geo 3.4, Geo 3.5
Vertically opposite angles	Geo 1.5
Angles in a triangle	Geo 1.2
Angles in a triangle – special cases	*Adapt* Geo 1.1 and Geo 1.2
Angles in a triangle – missing angles	Geo 1.1
Angles in quadrilaterals	Geo 1.3
Angles in polygons	Geo 1.4
Circles	Geo 2.1, Geo 2.2, Geo 2.3, Mea 1.5
Draw shapes accurately	Geo 1.1
Nets of 3-D shapes	Mea 3.1, Mea 3.2, Mea 3.3

NC Objectives

- Draw 2D shapes using given dimensions and angles.
- Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.
- Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.
- Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
- Recognise, describe and build simple 3-D shapes, including making nets
- *Draw given angles, and measure them in degrees (°) (**Y5**)*
- *Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles (**Y5**)*

Match of White Rose Maths Progression to Numicon Focus Activities
Year 6 | Summer Term | Small Steps Progression Week 4 – 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
The first quadrant	GMS 5: Geo 2.2
Read and plot points in four quadrants	Geo 3.1
Solve problems with coordinates	Geo 3.2
Translations	Geo 3.3
Reflections	Geo 3.4

NC Objectives

- Describe positions on the full coordinate grid (all four quadrants).
- Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.

Numicon activity groups	Numicon focus activities	Description
NPC Investigating 1: Making squares	NPC INV 1.1	Children make square numbers with paper tiles as the starting point for investigation and go on to explore ways of finding the square roots of different numbers.
NPC Investigating 2: What did I do?	NPC INV 2.1	A dividing number puzzle acts as the starting point for investigation, drawing upon children's knowledge of fractions and decimals.
NPC Investigating 3: How many ways?	NPC INV 3.1	Children explore the possibilities for shading a fraction of a regular shape as the starting point for investigation and explore how to list these systematically.
NPC Investigating 4: Decimal patterns	NPC INV 4.1	Children explore recurring decimals as the starting point for investigation and look to find the patterns that convert these decimals into fractions.
NPC Investigating 5: Which is the best value?	NPC INV 5.1	Children compare offers on mobile phone contracts as the starting point for investigation. This could be extended to a project on other financial choices to get best value for money.
NPC Investigating 6: An enterprise project	NPC INV 6.1	Creating mementos to sell to mark the end of primary school is used as the starting point for investigation, including costing ideas and predicting sales. This project could be undertaken in real life if circumstances and time allow.
GMS Investigating 1: Shape shifting	GMS INV 1.1, GMS INV 1.2, GMS INV 1.3	Children explore area and perimeter using geo boards. They then progress to investigating why there are only five Platonic solids.
GMS Investigating 2: Macro maths	GMS INV 2.1, GMS INV 2.2, GMS INV 2.3	Children investigate large numbers in a variety of contexts, such as money and volume, using spreadsheet software to help them.

GMS Investigating 3: Interesting information	GMS INV 3.1, GMS INV 3.2, GMS INV 3.3, GMS INV 3.4, GMS INV 3.5	Children practise handling data in a variety of real-world contexts and are introduced to topology.