# Hemlington Hall Academy
## Maths Medium-Term Plan & Small Steps: Year 4
Autumn Term

| | Place Value | Position & Direction | Addition & Subtraction | Statistics | Measurement & Length | Multiplication & Division | Assessment |
|---|---|---|---|---|---|---|---|
| | 3 weeks | 1 week | 3 weeks | 1 week | 2 weeks | 4 weeks | 1 week |
| **National Curriculum** | • Identify, represent and estimate numbers using different representations<br>• Count in multiples of 6, 7, 9, 25 and 1,000<br>• Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens and ones)<br>• Find 1,000 more or less than a given number<br>• Order and compare numbers beyond 1,000<br>• Round any number to the nearest 10, 100 or 1,000 | • Describe position using coordinates<br>• Plot coordinates<br>• Draw 2-D shapes on a grid<br>• Translate on a grid<br>• Describe translation on a grid | • Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate<br>• Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why<br>• Estimate and use inverse operations to check answers to a calculation | • Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs<br>• Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs | • Convert between different units of measure [for example, kilometre to metre; hour to minute]<br>• Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres | • Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 (Y5)<br>• Solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects<br>• Multiply 2-digit and 3-digit numbers by a 1-digit number using formal written layout<br>• Use place value, known and derived facts to multiply and divide mentally | • Test to be made by Maths lead to match what has been taught – do **not** just use WR End of Term Tests<br>• Day 1 do arithmetic test<br>• Day 2 go over and unpick the arithmetic test with loads of discussion – this **must** be given proper time<br>• Days 3 do reasoning test<br>• Day 4 go over and unpick the reasoning test with loads of discussion – this **must** be given proper time |
| **Small Steps** | • Represent numbers to THTO<br>• Partition numbers to THTO<br>• Partition numbers to THTO<br>• Find 1, 10, 100, 1,000 more or less<br>• Number line to 10,000<br>• Compare numbers to 10,000<br>• Order numbers to 10,000<br>• Round to the nearest 10<br>• Round to the nearest 100<br>• Round to the nearest 1,000<br>• Round to the nearest 10, 100 or 1,000 | • Describe position using coordinates<br>• Plot coordinates<br>• Translate on a grid<br>• Describe a translation | **From Calculation Policy 1st NOT WR & Do CPA lessons**<br>• Add and subtract 1s, 10s, 100s and 1,000s<br>• Add up to two 4-digit numbers – no exchange<br>• Add two 4-digit numbers – one exchange<br>• Add two 4-digit numbers – more than one exchange<br>• Subtract two 4-digit numbers – no exchange<br>• Subtract two 4-digit numbers – one exchange<br>• Subtract two 4-digit numbers – more than one exchange<br>• Estimate/approximate answers<br>• Checking strategies | • Interpret charts<br>• Comparison, sum and difference<br>• Interpret line graphs | • Measure in kilometres and metres<br>• Equivalent lengths (kilometres and metres)<br>• Perimeter on a grid<br>• Perimeter of a rectangle<br>• Perimeter of rectilinear shapes<br>• Find missing lengths in rectilinear shapes<br>• Calculate perimeter of rectilinear shapes<br>• Perimeter of regular polygons<br>• Perimeter of polygons | **From Calculation Policy 1st NOT WR & Do CPA lessons**<br>• Multiply by 10<br>• Multiply by 100<br>• Divide by 10<br>• Divide by 100<br>• Related facts – multiplication and division<br>• Informal written methods for multiplication<br>• Multiply a 2-digit number by a 1-digit number<br>• Multiply a 3-digit number by a 1-digit number<br>• Divide a 2-digit number by a 1-digit number (1)<br>• Divide a 2-digit number by a 1-digit number (2)<br>• Divide a 3-digit number by a 1-digit number | |
| **Enrichment** | | | Lingfield Education Trust TTRS Competition (16-20.10.23) | World Statistics Day (20.10.23) | WR Barvember (November) | Lingfield Education Trust TTRS Competition (11-15.12.23) | LET Christmas Problems & Puzzles |

# Hemlington Hall Academy
## Maths Medium-Term Plan Small Steps: Year 4
Spring Term

| | Area | Fractions | Decimals | Properties of Shape | Decimals | Assessment |
|---|---|---|---|---|---|---|
| | 1 week | 4 weeks | 3 weeks | 2 weeks | 2 weeks | 1 week |
| **National Curriculum** | • Find the area of rectilinear shapes by counting squares | • Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators (Y3)<br>• Recognise and show, using diagrams, families of common equivalent fractions<br>• Add and subtract fractions with the same denominator | • 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)<br>• Recognise and write decimal equivalents of any number of tenths or hundredths<br>• Compare numbers with the same number of decimal places up to 2 decimal places<br>• Find the effect of dividing a 1- or 2-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths<br>• Recognise and show, using diagrams, families of common equivalent fractions | • Recognise angles as a property of shape or a description of a turn (Y3)<br>• Identify acute and obtuse angles and compare and order angles up to two right angles by size<br>• Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes<br>• Identify lines of symmetry in 2-D shapes presented in different orientations<br>• Complete a simple symmetric figure with respect to a specific line of symmetry | • Recognise and write decimal equivalents of any number of tenths or hundredths<br>• Solve simple measure and money problems involving fractions and decimals to 2 decimal places<br>• Compare numbers with the same number of decimal places up to 2 decimal places<br>• Round decimals with 1 decimal place to the nearest whole number<br>• Recognise and write decimal equivalents to 1/4, 1/2 and 3/4 | • Test to be made by Maths lead to match what has been taught – do **not** just use WR End of Term Tests<br>• Day 1 do arithmetic test<br>• Day 2 go over and unpick the arithmetic test with loads of discussion – this **must** be given proper time<br>• Days 3 do reasoning test<br>• Day 4 go over and unpick the reasoning test with loads of discussion – this **must** be given proper time |
| **Small Steps** | • What is area and count squares<br>• Make shapes<br>• Compare areas | **From policy for fraction calculating methods – must be school consistency!**<br>• Understand the whole<br>• Count beyond 1<br>• Partition a mixed number<br>• Number lines with mixed numbers<br>• Compare and order mixed numbers<br>• Understand improper fractions<br>• Convert mixed numbers to improper fractions<br>• Convert improper fractions to mixed numbers<br>• Equivalent fractions on a number line Equivalent fraction families<br>• Add two or more fractions<br>• Add fractions and mixed numbers<br>• Subtract two fractions<br>• Subtract from whole amounts<br>• Subtract from mixed numbers | • Tenths as fractions<br>• Tenths as decimals<br>• Tenths on a place value chart<br>• Tenths on a number line<br>• Divide a 1-digit number by 10<br>• Divide a 2-digit number by 10<br>• Hundredths as fractions<br>• Hundredths as decimals<br>• Hundredths on a place value chart<br>• Divide a 1- or 2-digit number by 100 | • Understand angles as turns<br>• Identify angles<br>• Compare and order angles<br>• Triangles<br>• Quadrilaterals<br>• Polygons<br>• Lines of symmetry<br>• Complete a symmetric figure | • Make a whole with tenths<br>• Make a whole with hundredths<br>• Partition decimals<br>• Flexibly partition decimals<br>• Compare decimals<br>• Order decimals<br>• Round to the nearest whole number<br>• Halves and quarters as decimals | |
| **Enrichment** | International Puzzle Day (29.01.24) | Lingfield Education Trust TTRS Competition (05-09.02.24)<br><br>NSPCC Number Day (02.02.24) | | World Maths Day (23.03.24) | Lingfield Education Trust TTRS Competition (11-15.03.24) | LET Easter Problems & Puzzles |

# Hemlington Hall Academy
## Maths Medium-Term Plan Small Steps: Year 4
Summer Term

| | Measurement (Money) | Measurement (Time) | Consolidation | Assessment |
|---|---|---|---|---|
| | 3 weeks | 3 weeks | 3 weeks | 1 week |
| **National Curriculum** | • Estimate, compare and calculate different measures, including money in pounds and pence | • 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<br>• Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days<br>• Read, write and convert time between analogue and digital 12- and 24-hour clocks | Use these weeks as spares in case of coverage issues and to revisit the following units:<br>Place value<br>All four operations<br>Fractions | • Test to be made by Maths lead to match what has been taught – do **not** just use WR End of Term Tests<br>• Day 1 do arithmetic test<br>• Day 2 go over and unpick the arithmetic test with loads of discussion – this **must** be given proper time<br>• Days 3 do reasoning test<br>• Day 4 go over and unpick the reasoning test with loads of discussion – this **must** be given proper time |
| **Small Steps** | • Write money using decimals<br>• Convert between pounds and pence<br>• Compare amounts of money<br>• Estimate with money<br>• Calculate with money<br>• Solve problems with money | • Roman numerals<br>• Years, months, weeks and days<br>• Hours, minutes and seconds<br>• Convert between analogue and digital times<br>• Convert to the 24-hour clock<br>• Convert from the 24-hour clock | | |
| **Enrichment** | National Numeracy Day (15.05.24)<br><br>Women in Maths Day (12.05.24) | Lingfield Education Trust TTRS Competition (20-24.05.24)<br><br>My Money Week (12-16.06.24)<br><br>Alan Turing Day (23.06.24) | Lingfield Education Trust TTRS Competition (01-05.07.24)<br><br>Lingfield Education Trust maths Challenge (12.07.24) | LET Summer Problems & Puzzles |