Lingfield Education Trust
Maths Medium-Term Plan & Small Steps: Year 4
Autumn Term

	Place Value	Position & Direction	Addition & Subtraction	Statistics	Length & Perimeter	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 • Count in multiples of 6, 7, 9, 25 and 1,000 • Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens and ones) • Find 1,000 more or less than a given number • Order and compare numbers beyond 1,000 • Round any number to the nearest 10, 100 or 1,000	• Describe position using coordinates • Plot coordinates • Draw 2-D shapes on a grid • Translate on a grid • 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 • Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why • 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 • 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] • 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) • 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 • Multiply 2-digit and 3-digit numbers by a 1-digit number using formal written layout • 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 • Day 1 do arithmetic test • Day 2 go over and unpick the arithmetic test with loads of discussion – this **must** be given proper time • Days 3 do reasoning test • Day 4 go over and unpick the reasoning test with loads of discussion – this **must** be given proper time
Small Steps	• Represent and know value of digits to THTO • Partition THTO • Numberlines • 1, 10, 100, 1000 more less • Compare two numbers using < > = • Order sets of numbers • Round numbers to nearest 10, 100 and 1000	• Describe positions using coordinates • Plot coordinates • Translate on a grid • Describe a translation	**From Calculation Policy 1st NOT WR & Do CPA lessons** • Addition concrete phase – calculation policy • Addition pictorial phase – calculation policy • Abstract – no bridging • Abstract – 1 piece of bridging • Abstract – 2 pieces of bridging • Abstract – 2 pieces of bridging – include VF • subtraction concrete phase – calculation policy • subtraction pictorial phase – calculation policy • Abstract – no bridging • Abstract – 1 piece of regrouping • Abstract – 2 pieces of regrouping • Abstract – 2 pieces of regrouping – include VF	• Interpret bar charts • Comparison questions • Sum questions • Difference questions • Interpret line charts	• Equivalent lengths: km and m • Perimeter on a grid • Perimeter of a rectangle • Perimeter of rectilinear shapes – no missing values • Perimeter of rectilinear shapes - missing values • Perimeter of polygons	**From Calculation Policy 1st NOT WR & Do CPA lessons** • Multiply by 10 • Multiply by 100 • Related facts multiplication • divide by 10 • divide by 100 • Related facts division • Concrete phase from calculation policy • abstract phase from calculation policy • Short multiplication 2 x 1 abstract • Short multiplication 3 x 1 abstract • Concrete & pictorial from calculation policy • Division 2 by 1 • Division 3 by 1	
Enrichment	Block Opener/Assembly on Careers linked to unit	Block Opener/Assembly on Careers linked to unit	Block Opener/Assembly on Careers linked to unit Lingfield Education Trust TTRS Competition (16-20.10.23)	Block Opener/Assembly on Careers linked to unit World Statistics Day (20.10.23)	Block Opener/Assembly on Careers linked to unit WR Barvember (November)	Block Opener/Assembly on Careers linked to unit Lingfield Education Trust TTRS Competition (11-15.12.23)	LET Christmas Problems & Puzzles

	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) • Recognise and show, using diagrams, families of common equivalent fractions • 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) • Recognise and write decimal equivalents of any number of tenths or hundredths • Compare numbers with the same number of decimal places up to 2 decimal places • 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 • Recognise and show, using diagrams, families of common equivalent fractions	• Recognise angles as a property of shape or a description of a turn (Y3) • Identify acute and obtuse angles and compare and order angles up to two right angles by size • Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes • 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	• 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 • Compare numbers with the same number of decimal places up to 2 decimal places • Round decimals with 1 decimal place to the nearest whole number • 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 • Day 1 do arithmetic test • Day 2 go over and unpick the arithmetic test with loads of discussion – this **must** be given proper time • Days 3 do reasoning test • 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? • Make shapes • Compare areas	**From policy for fraction calculating methods – must be school consistency!** • Understand the whole • Understand mixed numbers • Compare and order mixed numbers • Understand improper fractions • Convert mixed numbers in to improper fractions • Convert improper fractions into mixed numbers • Equivalent fraction • Add two fractions • Add a fraction and mixed number • Subtract two fractions • Subtract fractions from wholes • Subtract fractions from mixed numbers	• Tenths as fractions • Tenths as decimals • Tenths on PV chart • Tenths on numberlines • Hundredths as fractions • Hundredth as decimals • Hundredth on PV chart • Hundredth on numberlines • Divide one digit number by 10 • Divide two digit number by 10 • Divide one digit number by 100 • Divide two digit number by 100	• Angles as turns and identify angles • Compare and order angles • Triangles • Quadrilaterals • Lines of symmetry • Complete symmetric figures	• Make a whole with tenths • Make a whole with hundredths • Partition decimals • Compare decimals • Order decimals • Round decimals with 1dp to nearest whole	
Enrichment	Block Opener/Assembly on Careers linked to unit International Puzzle Day (29.01.24)	Block Opener/Assembly on Careers linked to unit Lingfield Education Trust TTRS Competition (05-09.02.24) NSPCC Number Day (02.02.24)	Block Opener/Assembly on Careers linked to unit	Block Opener/Assembly on Careers linked to unit World Maths Day (23.03.24)	Block Opener/Assembly on Careers linked to unit Lingfield Education Trust TTRS Competition (11-15.03.24)	LET Easter Problems & Puzzles

	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 • Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days • 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: Place value All four operations Fractions	• Test to be made by Maths lead to match what has been taught – do **not** just use WR End of Term Tests • Day 1 do arithmetic test • Day 2 go over and unpick the arithmetic test with loads of discussion – this **must** be given proper time • Days 3 do reasoning test • Day 4 go over and unpick the reasoning test with loads of discussion – this **must** be given proper time
Small Steps	• Money as decimals • Convert between pounds and pence • Compare amounts of money • Estimate with money • Calculate with money – use calculation policy methods	• Read Roman numerals to 100 (I to C) • Years, months, weeks and days • Hours minutes and seconds • Convert between analogue and digital • Convert to 24 hour – this will 2 lessons • Convert from 24hr – this will need 2 lessons		
Enrichment	Block Opener/Assembly on Careers linked to unit National Numeracy Day (15.05.24) Women in Maths Day (12.05.24)	Block Opener/Assembly on Careers linked to unit Lingfield Education Trust TTRS Competition (20-24.05.24) My Money Week (12-16.06.24) Alan Turing Day (23.06.24) Allow you pupils practice on the maths orienteering course this term ready for the competition next term.	Block Opener/Assembly on Careers linked to unit Lingfield Education Trust TTRS Competition (01-05.07.24) MP Maths Orienteering Competition for all year groups (01-05.07.24) Lingfield Education Trust maths Challenge (12.07.24)	LET Summer Problems & Puzzles