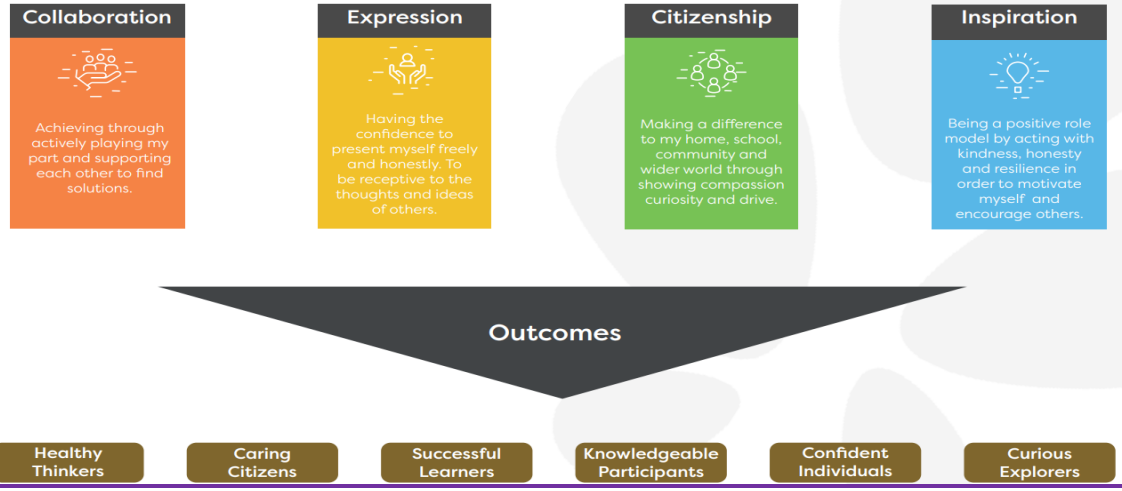
Poulton Lancelyn Maths Long Term Plan Y4 2024/25

part of Oak Trees MULTI ACADEMY TRUST

We build the Oak Trees character through our character gateways



Autumn 1 (8 Weeks)								
	Week 1 (4 days)	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Strand	Number – number and place value				Number – addition and subtraction			
National Curriculum	Review of Y3 Place Value Count in multiples of 25 and 1,000	Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s) Find 1,000 more or less than a given number	Identify, represent and estimate numbers using different representations Order and compare numbers beyond 1,000	Round any number to the nearest 10, 100 or 1,000	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
Ready to Progress		**NPV–2** Recognise the place value of each digit in four-digit numbers, and compose and decompose four-digit numbers using standard and non-standard partitioning.	**NPV–1** Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100; apply this to identify and work out how many 100s there are in other four-digit multiples of 100. **NPV–3** Reason about the location of any four-digit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100, and rounding to the nearest of each.		**NF–3** Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 100).			
Scheme Links	PowerMaths Unit 1 L1, 2, 3 White Rose Maths Au Block 1 S1, 2, 3, 4	PowerMaths Unit 1 L4, 5, 6, 7, 8 White Rose Maths Au Block 1 S5, 6, 7, 8	PowerMaths Unit 2 L1, 2, 3, 4 White Rose Maths Au Block 1 S9, 10, 11, 12	PowerMaths Unit 2 L5, 6, 7, 8 White Rose Maths Au Block 1 S14, 15, 16, 17	PowerMaths Unit 3 L1, 2, 3, 4, 5, 6, 7, 8 White Rose Maths Au Block 2 S1, 2, 3, 4, 5, 6, 7		PowerMaths Unit 3 L9, 10, 11, 12 White Rose Maths Au Block 2 S8, 9, 10	PowerMaths Unit 3 L13, 14, 15, 16
NCETM PD Materials		https://www.ncetm.org.uk/classroom-resources/primm-122-composition-and-calculation-1-000-and-four-digit-numbers/ https://www.ncetm.org.uk/classroom-resources/cp-year-4-unit-2-numbers-to-10-000/			https://www.ncetm.org.uk/classroom-resources/primm-122-composition-and-calculation-1-000-and-four-digit-numbers/			
Fluency Focus	Recall number bonds to 100. Count in 25s and 100s.							

Autumn 2 (7 Weeks)							
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Strand	Measure – area	Number – multiplication and division				Statistics	
National Curriculum	Find the area of rectilinear shapes by counting squares Estimate, compare and calculate different measures, including money in pounds and pence	Recall multiplication and division facts for multiplication tables up to 12 × 12 *recap 2, 5, 10 times tables (Y2) and 4, 8, 3 times tables (Y3) including patterns and generalisations *teach 6, 9, 7, 11, 12 times tables			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	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	
Ready to Progress		**NF–1** Recall multiplication and division facts up to 12 × 12, and recognise products in multiplication tables as multiples of the corresponding number. **MD–2** Manipulate multiplication and division equations, and understand and apply the commutative property of multiplication.					
Scheme Links	PowerMaths Unit 4 L1, 2, 3, 4, 5 White Rose Maths Au Block 3 S1, 2, 3, 4	PowerMaths Unit 5 L1, 2, 3, 4, 5, 6, 7, 8, 9 White Rose Maths Au Block 4 S1, 2, 3, 4, 5, 6, 7, 8, 9, 10			PowerMaths Unit 5 L10, 11, 12 White Rose Maths Au Block 4 S11, 12, 13	PowerMaths Unit 15 L1, 2, 3, 4, 5, 6 White Rose Maths Su Block 5 S1, 2, 3, 4 Oak National Academy Unit 4. L1, 2, 3, 4, 5, 6, 7, 8, 9, 10	
NCETM PD Materials	https://www.ncetm.org.uk/classroom-resources/primm-216-multiplicative-contexts-area-and-perimeter-1/	https://www.ncetm.org.uk/classroom-resources/primm-208-times-tables-3-6-and-9-and-the-relationship-between-them/ https://www.ncetm.org.uk/classroom-resources/primm-209-times-tables-7-and-patterns-withinacross-times-tables/ https://www.ncetm.org.uk/classroom-resources/primm-211-times-tables-11-and-12/					
Fluency Focus	Count in 6s. Know the multiplication and division facts for the 6-times table.						

Spring 1 (6 Weeks)						
	Week 1 (4 days)	Week 2	Week 3	Week 4	Week 5	Week 6
Strand	Consolidation of Autumn Term	Number – multiplication and division				Measure – length and perimeter
National Curriculum		Recognise and use factor pairs and commutativity in mental calculations Multiply and divide whole numbers by 10, 100 and 1,000 (Y5)	Multiply two-digit and three-digit numbers by a one-digit number using formal written layout	Use place value, known and derived facts to divide mentally Divide two-digit and three-digit numbers by a one-digit number using flexible partitioning	Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one-digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects	Convert between different units of measure [for example, kilometre to metre] Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
Ready to Progress		**MD–1** Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understand this as equivalent to making a number 10 or 100 times the size.		**NF–2** Solve division problems, with two-digit dividends and one-digit divisors, that involve remainders, and interpret remainders appropriately according to the context.		**G–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.
Scheme Links		PowerMaths Unit 6 L1, 2, 3, 4, 5 White Rose Maths Sp Block 1 S1, 2, 3, 4, 5, 6, 7	PowerMaths Unit 6 L6, 7, 8, 9, 10 White Rose Maths Sp Block 1 S8, 9, 10	PowerMaths Unit 6 L11, 12, 13, 14 White Rose Maths Sp Block 1 S11, 12, 13	PowerMaths Unit 6 L15, 16 White Rose Maths Sp Block 1 S14, 15	PowerMaths Unit 7 L1, 2, 3, 4, 5, 6 White Rose Maths Sp Block 2 S1, 2, 3, 4, 5, 6, 7, 8, 9
NCETM PD Materials		https://www.ncetm.org.uk/classroom-resources/primm-213-calculation-multiplying-and-dividing-by-10-or-100/	https://www.ncetm.org.uk/classroom-resources/primm-214-multiplication-partitioning-leading-to-short-multiplication/	https://www.ncetm.org.uk/classroom-resources/primm-215-division-partitioning-leading-to-short-division/		https://www.ncetm.org.uk/classroom-resources/cp-year-4-unit-3-perimeter/
Fluency Focus	Count in 9s and 11s. Know the multiplication and division facts for the 9- and 11-times table.					

Spring 2 (6 Weeks)						
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Strand	Number – fractions				Number – decimals	
National Curriculum	Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators (Y3) Compare and order unit fractions, and fractions with the same denominators	Recognise and show, using diagrams, equivalent fractions with small denominators	Add and subtract fractions with the same denominator	Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number	Recognise and write decimal equivalents of any number of tenths Count up and down in tenths	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 and tenths
Ready to Progress	**F–1** Reason about the location of mixed numbers in the linear number system.	**F–2** Convert mixed numbers to improper fractions and vice versa.	**F–3** Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers.			
Scheme Links	PowerMaths Unit 8 L1, 2, 3, 4 White Rose Maths Sp Block 3 S1, 2, 3, 4, 5, 6	PowerMaths Unit 8 L5, 6, 7, 8, 9 White Rose Maths Sp Block 3 S7, 8, 9, 10	PowerMaths Unit 9 L1, 2, 3, 4 White Rose Maths Sp Block 3 S10, 11, 12, 13, 14, 15	PowerMaths Unit 9 L5, 6, 7, 8	PowerMaths Unit 10 L1, 2, 3, 4, 5 White Rose Maths Sp Block 4 S1, 2, 3, 4	PowerMaths Unit 10 L6, 7 White Rose Maths Sp Block 4 S5, 6
NCETM PD Materials	https://www.ncetm.org.uk/classroom-resources/primm-305-working-across-one-whole-improper-fractions-and-mixed-numbers/ https://www.ncetm.org.uk/classroom-resources/primm-306-multiplying-whole-numbers-and-fractions/				https://www.ncetm.org.uk/classroom-resources/primm-123-composition-and-calculation-tenths/	
Fluency Focus	Count in 7s and 12s. Know the multiplication and division facts for the 7- and 12-times table.					

Summer 1 (5 Weeks)					
	Week 1	Week 2	Week 3	Week 4	Week 5
Strand	Consolidation of Spring Term	Number – decimals			Measure – money
National Curriculum		Recognise and write decimal equivalents of any number of hundredths Count up and down in 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	Recognise and write decimal equivalents of any number of tenths or hundredths	Compare numbers with the same number of decimal places up to two decimal places Round decimals with one decimal place to the nearest whole number Recognise and write decimal equivalents to 1/4, 1/2, 3/4	Estimate, compare and calculate different measures, including money in pounds and pence Solve simple money problems involving fractions and decimals to two decimal places
Ready to Progress			**NPV–2** Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and non-standard partitioning.		
Scheme Links		PowerMaths Unit 10 L8, 9, 10, 11, 12 White Rose Maths Sp Block 4 S7, 8, 9, 10	PowerMaths Unit 11 L1, 2, 3 White Rose Maths Su Block 1 S1, 2, 3, 4	PowerMaths Unit 11 L4, 5, 6, 7 White Rose Maths Sp Block 4 S5, 6, 7, 8	PowerMaths Unit 12 L1, 2, 3, 4, 5, 6 White Rose Maths Sp Block 4 S1, 2, 3, 4, 5, 6
NCETM PD Materials		https://www.ncetm.org.uk/classroom-resources/primm-124-composition-and-calculation-hundredths-and-thousandths/			https://www.ncetm.org.uk/classroom-resources/primm-125-addition-and-subtraction-money/
Fluency Focus	Know the multiplication and division facts for all times tables up to 12x12.				

Summer 2 (7 Weeks)							
	Week 1 (4 days)	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Strand	Measure – time		Geometry – properties of shapes			Geometry – position and direction	
National Curriculum	Convert between different units of measure [for example, hour to minute]	Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	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 2D shapes presented in different orientations Complete a simple symmetric figure with respect to a specific line of symmetry	Describe positions on a 2D grid as coordinates in the first quadrant Plot specified points and draw sides to complete a given polygon	Describe movements between positions as translations of a given unit to the left/right and up/down Y4 Consolidation
Ready to Progress				**G–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.	**G–3** Identify line symmetry in 2D shapes presented in different orientations. Reflect shapes in a line of symmetry and complete a symmetric figure or pattern with respect to a specified line of symmetry.	**G–1** Draw polygons, specified by coordinates in the first quadrant, and translate within the first quadrant.	
Scheme Links	PowerMaths Unit 13 L1, 2, 3, 4 White Rose Maths Su Block 3 S1, 2, 3, 4, 5 Oak National Academy Unit 7 L1, 2, 3, 4	PowerMaths Unit 13 L5 Oak National Academy Unit 7 L5	PowerMaths Unit 14 L1, 2 White Rose Maths Su Block 4 S1, 2, 3	PowerMaths Unit 14 L3, 4, 5, 6 White Rose Maths Su Block 4 S4, 5, 6	PowerMaths Unit 14 L7, 8 White Rose Maths Su Block 4 S7, 8	PowerMaths Unit 16 L1, 2, 3, 4 White Rose Maths Su Block 6 S1, 2, 3	PowerMaths Unit 16 L5, 6 White Rose Maths Su Block 6 S4, 5
NCETM PD Materials	https://www.ncetm.org.uk/classroom-resources/cp-year-4-unit-11-time/				https://www.ncetm.org.uk/classroom-resources/cp-year-4-unit-10-symmetry-in-2d-shapes/	https://www.ncetm.org.uk/classroom-resources/cp-year-4-unit-7-coordinates/	
Fluency Focus	Multiply and divide 1- and 2-digit numbers by 10 and 100. Recognise decimal equivalents of the fractions ½, ¼, ¾, tenths and hundredths.						