



Maths Coverage

Year 4 2021-22

AUTUMN Term



	Term 1								Term 2						
	Week 1 (2 days)	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7 (4 days)
NC Focus	Number: Place Value				Number: Addition and Subtraction				Measurement: Length and perimeter		Number: Multiplication and Division				Consolidation
NC Objectives	<ul style="list-style-type: none"> 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. Solve number and practical problems that involve all of the above and with increasingly large positive numbers. Count backwards through zero to include negative numbers. 				<ul style="list-style-type: none"> 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. 				<ul style="list-style-type: none"> 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). 		<ul style="list-style-type: none"> Recall and use multiplication and division facts for multiplication tables up to 12 x 12. Count in multiples of 6, 7, 9, 25 and 1000. 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. 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. 				
Ready to Progress Criteria	<ul style="list-style-type: none"> 4NPV-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. 4NPV-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. 4NPV-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. 4NPV-4 Divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 1,000 with 2, 4, 5 and 10 equal parts. 4NF-3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 100). 				<ul style="list-style-type: none"> See Year 3 						<ul style="list-style-type: none"> 4NPV-4 Divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 1,000 with 2, 4, 5 and 10 equal parts. 4NF-1 Recall multiplication and division facts up to 12x12, and recognise products in multiplication tables as multiples of the corresponding number. 4NF-2 Solve division problems, with two-digit dividends and one-digit divisors that involve remainders, and interpret remainders appropriately according to the context. 4MD-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. 4MD-2 Manipulate multiplication and division equations, and understand and apply the commutative property of multiplication. 4MD-3 Understand and apply the distributive property of multiplication. 				
White Rose Small Steps	<ul style="list-style-type: none"> Roman Numerals to 100. Round to the nearest 10. Round to the nearest 100. Count in 1000s. 1000s, 100s, 10s and 1s. Partitioning. Number line to 10,000. 1000 more or less. Compare numbers. 				<ul style="list-style-type: none"> Add and subtract 1s, 10s, 100s and 1000s. Add two 4-digit numbers – no exchange. Add two 4-digit numbers - one exchange. Add two 4-digit numbers – more than one exchange. Subtract two 4-digit numbers – no exchange. Subtract two 4-digit numbers – one exchange. Subtract two 4-digit numbers – more than one exchange. Efficient subtraction. Estimate answers. 				<ul style="list-style-type: none"> Kilometres. Perimeter on a grid. Perimeter of a rectangle. Perimeter of rectilinear shapes. 		<ul style="list-style-type: none"> Multiply by 10. Multiply by 100. Divide by 10. Divide by 100. Multiply by 1 and 0. Divide by 1. Multiply and divide by 6. 6 times-table and division facts. Multiply and divide by 9. 				

	<ul style="list-style-type: none"> Order numbers. Round to the nearest 1000. Count in 25s. Negative numbers. 	<ul style="list-style-type: none"> Checking strategies. 		<ul style="list-style-type: none"> 9 times-table and division facts. Multiply and divide by 7. 7 times-table and division facts. 	
<p>Year 2/3 Revisit (potential gaps in learning from previous years)</p>	<ul style="list-style-type: none"> Read and write numbers in words. Use a place value chart. Count in 3s. 	<ul style="list-style-type: none"> Add two 2-digit numbers – crossing ten – add ones and add tens. Subtract a 2-digit number from a 2-digit number – crossing ten – subtract ones and tens. Bonds to 100 (tens and ones). Add three 1-digit numbers. 	<ul style="list-style-type: none"> Year 3 – on GC. Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). Measure the perimeter of simple 2D shapes. 	<ul style="list-style-type: none"> Make equal groups – grouping. Divide by 2 Odd & even numbers. Divide by 5. Divide by 10. 	
<p>Consolidation Required (based on current End of Block Assessments)</p>	•	•	•	•	•



Maths Coverage

Year 4

SPRING Term

	Term 3						Term 4						
	Week 1 (3 days)	Week 2	Week 3	Week 4	Week 5	Week 6	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
NC Focus	Number: Multiplication and Division			Measurement: Area	Fractions			Fractions		Decimals			Consolidation
NC Objectives	<ul style="list-style-type: none"> Recall and use multiplication and division facts for multiplication tables up to 12 x 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. Multiply two and three digit numbers by a one digit number using formal written layout. Solve problems involving multiplying and adding, including those 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. 			<ul style="list-style-type: none"> Find the area of rectilinear shapes by counting squares. 	<ul style="list-style-type: none"> 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. 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. Add and subtract fractions with the same denominator. 			<ul style="list-style-type: none"> 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. 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. Add and subtract fractions with the same denominator. 		<ul style="list-style-type: none"> 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 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths. Solve simple measure and money problems involving fractions and decimals to two decimal places. Convert between different units of measure (for example, kilometre to metre). 			
Ready to Progress Criteria	<ul style="list-style-type: none"> 4NPV-4 Divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 1,000 with 2, 4, 5 and 10 equal parts. 4NF-1 Recall multiplication and division facts up to 12x12, and recognise products in multiplication tables as multiples of the corresponding number. 4NF-2 Solve division problems, with two-digit dividends and one-digit divisors that involve remainders, and interpret remainders appropriately according to the context. 4MD-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. 4MD-2 Manipulate multiplication and division equations, and understand and 				<ul style="list-style-type: none"> 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. 								

	<p>apply the commutative property of multiplication.</p> <ul style="list-style-type: none"> • 4MD-3 Understand and apply the distributive property of multiplication. 					
White Rose Small Steps	<ul style="list-style-type: none"> • 11 and 12 times tables. • Multiply 3 numbers. • Factor pairs. • Efficient multiplication. • Written methods. • Multiply 2-digits by 1-digit. • Multiply 3-digits by 1-digit. • Divide 2-digits by 1-digit (1). • Divide 2-digits by 1-digit (2). • Correspondence problems. 	<ul style="list-style-type: none"> • What is area? • Counting squares. • Making shapes. • Comparing area. 	<ul style="list-style-type: none"> • What is a fraction? • Equivalent fractions (1) • Equivalent fractions (2) • Fractions greater than 1. • Count in fractions. • Add 2 or more fractions. • Subtract 2 fractions. • Subtract from whole amounts. • Calculate fractions of a quantity. • Problem solving – calculate quantities. 	<ul style="list-style-type: none"> • What is a fraction? • Equivalent fractions (1) • Equivalent fractions (2) • Fractions greater than 1. • Count in fractions. • Add 2 or more fractions. • Subtract 2 fractions. • Subtract from whole amounts. • Calculate fractions of a quantity. • Problem solving – calculate quantities. 	<ul style="list-style-type: none"> • Recognise tenths and hundredths. • Tenths as decimals. • Tenths on a place value grid. • Tenths on a number line. • Divide 1 digit by 10. • Divide 2 digits by 10. • Hundredths. • Hundredths as decimals. • Hundredths on a place value grid. • Divide 1 or 2 digits by 100. 	
Year 2/3 Revisit (potential gaps in learning from previous years)	<ul style="list-style-type: none"> • See previous. 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Unit fractions. • Non-unit fractions. • Equivalence of $\frac{1}{2}$ and $\frac{2}{4}$. • Find three quarters. • Count in fractions. 			
Consolidation Required (based on current End of Block Assessments)	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	



Maths Coverage Year 4 SUMMER Term

	Term 5						Term 6						
	Week 1 (4 days)	Week 2	Week 3 4 days	Week 4	Week 5	Week 6	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7 (3 days)
NC Focus	Decimals		Measurement: Money		Time		Statistics		Geometry: Properties of Shape			Geometry: Position and Direction	Consolidation
NC Objectives	<ul style="list-style-type: none"> 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 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths or hundredths. 		<ul style="list-style-type: none"> Estimate, compare and calculate different measures including money in pounds and pence. Solve simple measure and money problems involving fractions and decimals to two decimal places. 		<ul style="list-style-type: none"> 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. 		<ul style="list-style-type: none"> 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. 		<ul style="list-style-type: none"> 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. 			<ul style="list-style-type: none"> Describe positions on a 2-D 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. 	
Ready to Progress Criteria									<ul style="list-style-type: none"> 4G-1 Draw polygons, specified by coordinates in the first quadrant, and translate within the first quadrant. 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. 4G-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. 				
White Rose Small Steps	<ul style="list-style-type: none"> Make a whole Write decimals Compare decimals Order decimals Round decimals Halves and quarters 		<ul style="list-style-type: none"> Pounds and pence Ordering amounts of money Using rounding to estimate money Four operations 		<ul style="list-style-type: none"> Hours, minutes and seconds. Years, months, weeks and days. Analogue to digital – 12 hour. Analogue to digital – 24 hour. 		<ul style="list-style-type: none"> Interpret charts Comparison, sum and difference. Introducing line graphs Line graphs. 		<ul style="list-style-type: none"> Identify angles Compare and order angles Triangles Quadrilaterals Lines of symmetry Complete a symmetric figure. 			<ul style="list-style-type: none"> Describe position Draw on a grid Move on a grid Describe a movement on a grid 	
Year 2/3	<ul style="list-style-type: none"> 		<ul style="list-style-type: none"> Year 3 – on GC. Count money – notes 		<ul style="list-style-type: none"> Quarter to. Telling time to 5 minutes. 		<ul style="list-style-type: none"> Year 3 – on GC. Make tally charts. 					<ul style="list-style-type: none"> Describing 	

<p>Revisit (potential gaps in learning from previous years)</p>		<p>and coins.</p> <ul style="list-style-type: none"> • Find the difference. • Find change. • Two-step problems. • Add and subtract amounts of money to give change, using both £ and p in practical contexts. 	<ul style="list-style-type: none"> • Compare durations of time. 	<ul style="list-style-type: none"> • Draw pictograms (2, 5 and 10). • Interpret pictograms (2, 5 and 10). • Interpret and present data using bar charts, pictograms and tables. • Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables. 		<p>movement and turns.</p>	
<p>Consolidation Required (based on current End of Block Assessments)</p>	•	•	•	•	•		