



Year 3/4 overview

This mixed-age plan follows the same progression as the White Rose Maths mixed-age planning, except where divergence improves the alignment of the *Power Maths* lessons.

The main aim of these plans is to allow teachers to cover the same topic with both groups.

Note: The colours used in these charts refer to the strand colours used in the Textbook.



Year 3	Year 4	Number of lessons
Autumn term		58
<p>Unit 1: Place value within 1,000</p> <ul style="list-style-type: none"> Recognise the place value of each digit in a two-digit number (tens, ones) [Year 2]. Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number. Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). Compare and order numbers up to 1,000. Identify, represent and estimate numbers using different representations. 	<p>Unit 1: Place value – 4-digit numbers (1)</p> <ul style="list-style-type: none"> Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number [Year 3]. Count in multiples of 6, 7, 9, 25 and 1,000. Find 1,000 more or less than a given number. Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones). Identify, represent and estimate numbers using different representations. <hr/> <p>Unit 2: Place value – 4-digit numbers (2)</p> <ul style="list-style-type: none"> Count in multiples of 6, 7, 9, 25 and 1000. Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones). Order and compare numbers beyond 1,000. Identify, represent and estimate numbers using different representations. Round any number to the nearest 10, 100 or 1,000. Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value. 	17

Year 3	Year 4	Number of lessons
<p>Unit 2: Addition and subtraction (1)</p> <ul style="list-style-type: none"> Recognise the place value of each digit in a two-digit number (tens, ones) [Year 2]. Add and subtract numbers mentally, including: <ul style="list-style-type: none"> a three-digit number and ones a three-digit number and tens a three-digit number and hundreds. Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. 	<p>Unit 3: Addition and subtraction</p> <ul style="list-style-type: none"> Solve number and practical problems that involve all of the above and with increasingly large positive numbers. 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. 	<p>23</p>
<p>Unit 3: Addition and subtraction (2)</p> <ul style="list-style-type: none"> Add and subtract numbers mentally, including: <ul style="list-style-type: none"> a three-digit number and ones a three-digit number and tens a three-digit number and hundreds. Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Estimate the answer to a calculation and use inverse operations to check answers. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. 		



Year 3	Year 4	Number of lessons
<p>Unit 4: Multiplication and division (1)</p> <ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. 	<p>Unit 5: Multiplication and division (1)</p> <ul style="list-style-type: none"> Recall multiplication and division facts for multiplication tables up to 12×12. Use place value, known and derived facts to multiply and divide mentally, including: <ul style="list-style-type: none"> - multiplying by 0 and 1 - dividing by 1 - multiplying together three numbers. 	18
<p>Unit 5: Multiplication and division (2)</p> <ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects. 		

Year 3	Year 4	Number of lessons
Spring term		62
<p>Unit 6: Multiplication and division (3)</p> <ul style="list-style-type: none"> • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. • Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects. 	<p>Unit 6: Multiplication and division (2)</p> <ul style="list-style-type: none"> • Recall multiplication and division facts for multiplication tables up to 12×12. • Use place value, known and derived facts to multiply and divide mentally, including: <ul style="list-style-type: none"> - multiplying by 0 and 1 - dividing by 1 - multiplying together three numbers. • Recognise and use factor pairs and commutativity in mental calculations. • Multiply two-digit and three-digit numbers by a one-digit number using formal written layout. • 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. 	18
<p>Unit 7: Length and perimeter</p> <ul style="list-style-type: none"> • Measure, compare, add and subtract: lengths (m/cm/mm). • Measure the perimeter of simple 2D shapes. 	<p>Unit 4: Measure – area</p> <ul style="list-style-type: none"> • Find the area of rectilinear shapes by counting squares. • Estimate, compare and calculate different measures, including money in pounds and pence. 	12

Year 3	Year 4	Number of lessons
	<p>Unit 7: Length and perimeter</p> <ul style="list-style-type: none"> 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. 	
<p>Unit 8: Fractions (1)</p> <ul style="list-style-type: none"> Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. Recognise and show, using diagrams, equivalent fractions with small denominators. Compare and order unit fractions, and fractions with the same denominators. 	<p>Unit 8: Fractions (1)</p> <ul style="list-style-type: none"> Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators [Year 3]. Recognise and show, using diagrams, equivalent fractions with small denominators [Year 3]. Compare and order unit fractions, and fractions with the same denominators [Year 3]. Recognise and show, using diagrams, families of common equivalent fractions. 	18
<p>Unit 11: Fractions (2)</p> <ul style="list-style-type: none"> Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$]. Solve problems that involve all of the above. 	<p>Unit 9: Fractions (2)</p> <ul style="list-style-type: none"> 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. 	

Year 3	Year 4	Number of lessons		
<p>Unit 9: Mass</p> <ul style="list-style-type: none"> Measure, compare, add and subtract: mass (kg/g). 	<p>Unit 10: Decimals (1)</p> <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 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths. 	<p>14</p>		
<p>Unit 10: Capacity</p> <ul style="list-style-type: none"> Measure, compare, add and subtract: volume/capacity (l/ml). 				



Year 3	Year 4	Number of lessons
Summer term		41
<p>Unit 13: Time</p> <ul style="list-style-type: none"> Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks. Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. Know the number of seconds in a minute and the number of days in each month, year and leap year. Compare durations of events [for example to calculate the time taken by particular events or tasks]. 	<p>Unit 11: Decimals (2)</p> <ul style="list-style-type: none"> Recognise and write decimal equivalents of any number of tenths or hundredths. Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$. Round decimals with one decimal place to the nearest whole number. Compare numbers with the same number of decimal places up to two decimal places. <hr/> <p>Unit 13: Time</p> <ul style="list-style-type: none"> Convert between different units of measure [for example, kilometre to metre; hour to minute]. 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. 	13



Year 3	Year 4	Number of lessons
<p>Unit 14: Angles and properties of shapes</p> <ul style="list-style-type: none"> • Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them. • Recognise angles as a property of shape or a description of a turn. • Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle. • Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. 	<p>Unit 14: Angles and 2D shapes</p> <ul style="list-style-type: none"> • Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. • Identify acute and obtuse angles and compare and order angles up to two right angles by size. • Identify lines of symmetry in 2D shapes presented in different orientations. • Complete a simple symmetric figure with respect to a specific line of symmetry. 	9
<p>Unit 12: Money</p> <ul style="list-style-type: none"> • Add and subtract amounts of money to give change, using both £ and p in practical contexts. 	<p>Unit 12: Money</p> <ul style="list-style-type: none"> • Estimate, compare and calculate different measures, including money in pounds and pence. 	6
<p>Unit 15: Statistics</p> <ul style="list-style-type: none"> • Interpret and present data using bar charts, pictograms and tables. • Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables. 	<p>Unit 15: Statistics</p> <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. 	7



Year 3	Year 4	Number of lessons
<p>Consolidation</p>	<p>Unit 16: Geometry – position and direction</p> <ul style="list-style-type: none"> • Describe positions on a 2D grid as coordinates in the first quadrant. • Describe movements between positions as translations of a given unit to the left/right and up/down. • Plot specified points and draw sides to complete a given polygon. 	<p>6</p>