



# YEAR 5



- Unit plans are based around the White Rose Math's scheme
- Plans are flexible and may be adapted throughout the year to meet the needs of our children
- Each term will contain four arithmetic sessions – two per half term (see lesson structure document) and one assessment week
- *As part of our Fullness of Life curriculum, children will complete BARCLAYS Financial Education Scheme. For Year 5, objectives 1 – 4 will be taught as afternoon sessions in the first week of Autumn One.*

	WEEK ONE	WEEK TWO	WEEK THREE	WEEK FOUR	WEEK FIVE	WEEK SIX	WEEK SEVEN	WEEK EIGHT	
AUTUMN ONE	<p><b>Statistics:</b></p> <ul style="list-style-type: none"> <li>• Step 1: Draw Line Graphs</li> <li>• Step 2: Read and interpret line graphs</li> <li>• Step 3: Read and interpret tables</li> <li>• Step 4: Two-way tables</li> <li>• Step 5: Read and interpret timetables</li> </ul>	<p style="text-align: center;"><b>Place Value:</b></p> <ul style="list-style-type: none"> <li>• Step 1: Roman numerals to 1,000</li> <li>• Step 2: Numbers to 10,000</li> <li>• Step 3: Numbers to 100,000</li> <li>• Step 4: Numbers to 1,000,000</li> <li>• Step 5: Read and write numbers to 1,000,000</li> <li>• Step 6: Powers of 10</li> <li>• Step 7: 10/100/1,000/10,000/100,000 more or less</li> <li>• Step 8: Partition numbers to 1,000,000</li> <li>• Step 9: Number line to 1,000,000</li> <li>• Step 10: Compare and order numbers to 100,000</li> <li>• Step 11: Compare and order numbers to 1,000,000</li> <li>• Step 12: Round to the nearest 10, 100 or 1,000</li> <li>• Step 13: Round within 100,000</li> <li>• Step 14: Round within 1,000,000</li> </ul>				<p style="text-align: center;"><b>Addition and Subtraction:</b></p> <ul style="list-style-type: none"> <li>• Step 1: Mental strategies</li> <li>• Step 2: Add whole numbers with more than four digits</li> <li>• Step 3: Subtract whole numbers with more than four digits</li> <li>• Step 4: Round to check answers</li> <li>• Step 5: Inverse operations (addition and subtraction)</li> <li>• Step 6: Multi-step addition and subtraction problems</li> <li>• Step 7: Compare calculations</li> <li>• Step 8: Find missing numbers</li> </ul>			
AUTUMN TWO	<p style="text-align: center;"><b>Multiplication and Division:</b></p> <ul style="list-style-type: none"> <li>• Step 1: Multiples</li> <li>• Step 2: Common multiples</li> <li>• Step 3: Factors</li> <li>• Step 4: Common factors</li> <li>• Step 5: Prime numbers</li> <li>• Step 6: Square numbers</li> <li>• Step 7: Cube numbers</li> <li>• Step 8: Multiply by 10, 100 and 1,000</li> <li>• Step 9: Divide by 10, 100 and 1,000</li> <li>• Step 10: Multiples of 10, 100 and 1,000</li> </ul>		<p style="text-align: center;"><b>Fractions A:</b></p> <ul style="list-style-type: none"> <li>• Step 1: Find fractions equivalent to a unit fraction</li> <li>• Step 2: Find fractions equivalent to a non-unit fraction</li> <li>• Step 3: Recognise equivalent fractions</li> <li>• Step 4: Convert improper fractions to mixed numbers</li> <li>• Step 5: Convert mixed numbers to improper fractions</li> <li>• Step 6: Compare fractions less than 1</li> <li>• Step 7: Order fractions less than 1</li> <li>• Step 8: Compare and order fractions greater than 1</li> </ul>			<p style="text-align: center;"><b>Area and Perimeter:</b></p> <ul style="list-style-type: none"> <li>• Step 1: Perimeter of rectangles</li> <li>• Step 2: Perimeter of rectilinear shapes</li> <li>• Step 3: Perimeter of polygons</li> <li>• Step 4: Area of rectangles</li> <li>• Step 5: Area of compound shapes</li> <li>• Step 6: Estimate area</li> </ul>		CONSOLIDATION & ASSESSMENT	

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- *\*We recognise that some WRM objectives within the Year 5 fractions unit are Year 6 National Curriculum Objectives. This will be taught and adapted as part of our ambitious curriculum but teacher judgements will solely be based on Year 5 objectives.*



	WEEK ONE	WEEK TWO	WEEK THREE	WEEK FOUR	WEEK FIVE	WEEK SIX
<b>SPRING ONE</b>	<p style="text-align: center;"><b>Shape:</b></p> <ul style="list-style-type: none"> <li>• Step 1: Understand and use degrees</li> <li>• Step 2: Classify angles</li> <li>• Step 4: Measure angles up to 180°</li> <li>• Step 5: Draw lines and angles accurately</li> <li>• Step 6: Calculate angles around a point</li> <li>• Step 7: Calculate angles on a straight line</li> <li>• Step 8: Lengths and angles in shapes</li> <li>• Step 3: Estimate angles</li> <li>• Step 9: Regular and irregular polygons</li> <li>• Step 10: 3-D shapes</li> </ul>		<p style="text-align: center;"><b>Fractions A (continued):</b></p> <ul style="list-style-type: none"> <li>• Step 9: Add and subtract fractions with the same denominator</li> <li>• Step 10: Add fractions within 1</li> <li>• Step 11: Add fractions with total greater than 1</li> <li>• <b>Step 12: Add to a mixed number</b></li> <li>• <b>Step 13: Add two mixed numbers</b></li> <li>• Step 14: Subtract fractions</li> <li>• <b>Step 15: Subtract from a mixed number</b></li> <li>• <b>Step 16: Subtract from a mixed number - breaking the whole</b></li> <li>• <b>Step 17: Subtract two mixed numbers</b></li> </ul>		<p style="text-align: center;"><b>Multiplication and Division B:</b></p> <ul style="list-style-type: none"> <li>• Step 1: Multiply up to a 4-digit number by a 1-digit number</li> <li>• Step 2: Multiply a 2-digit number by a 2-digit number (area model)</li> <li>• Step 3: Multiply a 2-digit number by a 2-digit number</li> <li>• Step 4: Multiply a 3-digit number by a 2-digit number</li> <li>• Step 5: Multiply a 4-digit number by a 2-digit number</li> <li>• Step 6: Solve problems with multiplication</li> <li>• Step 7: Short division</li> <li>• Step 8: Divide a 4-digit number by a 1-digit number</li> </ul>	
<b>SPRING TWO</b>	<p style="text-align: center;"><b>Multiplication and Division B (continued):</b></p> <ul style="list-style-type: none"> <li>• Step 9: Divide with remainders</li> <li>• Step 10: Solve problems with multiplication and division</li> </ul> <p style="text-align: center;"><b>Fractions B:</b></p> <ul style="list-style-type: none"> <li>• Step 1: Multiply a unit fraction by an integer</li> <li>• Step 2: Multiply a non-unit fraction by an integer</li> <li>• Step 3: Multiply a mixed number by an integer</li> <li>• Step 4: Calculate a fraction of a quantity</li> <li>• Step 5: Fraction of an amount</li> <li>• Step 6: Find the whole</li> <li>• Step 7: Use fractions as operators</li> </ul>			<b>CONSOLIDATION AND ASSESSMENT</b>		



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<b>SUMMER ONE</b>	<p align="center"><b><u>Decimals and Percentages:</u></b></p> <ul style="list-style-type: none"> <li>• Step 1: Decimals up to 2 decimal places</li> <li>• Step 2: Equivalent fractions and decimals (tenths)</li> <li>• Step 3: Equivalent fractions and decimals (hundredths)</li> <li>• Step 4: Equivalent fractions and decimals</li> <li>• Step 5: Thousandths as fractions</li> <li>• Step 6: Thousandths as decimals</li> <li>• Step 7: Thousandths on a place value chart</li> <li>• Step 8: Order and compare decimals (same number of decimal places)</li> <li>• Step 9: Order and compare any decimals with up to 3 decimal places</li> <li>• Step 10: Round to the nearest whole number</li> <li>• Step 11: Round to 1 decimal place</li> <li>• Step 12: Understand percentages</li> <li>• Step 13: Percentages as fractions</li> <li>• Step 14: Percentages as decimals</li> <li>• Step 15: Equivalent fractions, decimals and percentages</li> </ul>				<p align="center"><b><u>Position and Direction:</u></b></p> <ul style="list-style-type: none"> <li>• Step 1: Read and plot coordinates</li> <li>• Step 2: Problem solving with coordinates</li> <li>• Step 3: Translation</li> <li>• Step 4: Translation with coordinates</li> <li>• Step 5: Lines of symmetry</li> <li>• Step 6: Reflection in horizontal and vertical lines</li> </ul>		<p align="center"><b><u>Decimals:</u></b></p> <ul style="list-style-type: none"> <li>• Step 1: Use known facts to add and subtract decimals within 1</li> <li>• Step 2: Complements to 1</li> <li>• Step 3: Add and subtract decimals across 1</li> </ul>	
	<b>SUMMER TWO</b>	<p align="center"><b><u>Decimals (continued):</u></b></p> <ul style="list-style-type: none"> <li>• Step 4 Add decimals with the same number of decimal places</li> <li>• Step 6 Add decimals with different numbers of decimal places</li> <li>• Step 5 Subtract decimals with the same number of decimal places</li> <li>• Step 7 Subtract decimals with different numbers of decimal places</li> <li>• Step 9 Decimal sequences</li> <li>• Step 10 Multiply by 10, 100 and 1,000</li> <li>• Step 11 Divide by 10, 100 and 1,000</li> </ul>		<p align="center"><b><u>Negative Numbers:</u></b></p> <ul style="list-style-type: none"> <li>• Step 1: Understand negative numbers</li> <li>• Step 2: Count through zero in 1s</li> <li>• Step 3: Count through zero in multiples</li> <li>• Step 4: Compare and order negative numbers</li> <li>• Step 5: Find the difference</li> </ul>		<p align="center"><b><u>Converting Units:</u></b></p> <ul style="list-style-type: none"> <li>• Step 1: Kilograms and kilometres</li> <li>• Step 2: Millimetres and millilitres</li> <li>• Step 3: Convert units of length</li> <li>• Step 4: Convert between metric and imperial units</li> <li>• Step 5: Convert units of time</li> <li>• Step 6: Calculate with timetables</li> </ul> <p align="center"><b><u>Volume:</u></b></p> <ul style="list-style-type: none"> <li>• Step 1: Cubic centimetres</li> <li>• Step 2: Compare volume</li> <li>• Step 3: Estimate volume</li> <li>• Step 4: Estimate capacity</li> </ul>		<p align="center">CONSOLIDATION &amp; ASSESSMENT</p>