



## Long Term Mathematics Planning Year 5

### National Curriculum Aims: Fluency Reasoning Problem-Solving

		Objective title	Focus	Additional strands
<b>Autumn</b>	1	<b>Number, place value and rounding</b>	Number— place value (order, round), solve problems, Roman numerals (inc. recognising years)	
	2	<b>Addition and subtraction</b>	Written & Mental calculation, number facts, multi-step problems	Algebra for greater depth— use simple formulae, express missing number problems algebraically
	3	<b>Geometry</b>	Geometry □ Angles-identify and measure Measure angles in degrees	Times tables and related division facts
	4	<b>Fractions and decimals</b>	Fractions, decimals □ Recognise, count, order & compare (fractions & decimals) □ Add/subtract fractions with same/different denominators Fractions—decimal numbers, equivalence	'prime, square numbers Roman numerals
	5	<b>Multiplication and division</b>	Times and divide whole and decimal numbers by 10 100 and 1000 Prime number up to 50 Square numbers Cube numbers Factor bugs' - factors Multiply and divide up to 4 digit numbers by a 1 digit number	Angles Revise and re visit
	6	<b>Measures</b>	Area and perimeter of rectangles, composite rectilinear shapes	



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<b>Spring</b>	<b>1</b>	<b>Number place value and rounding</b>	Place value- count forwards and back in steps of powers of 10 for any given number up to 1000 000 Negative numbers Solving number and practical problems (whole numbers and decimals) including rounding	Multiply and divide by 10, 100, 1000 'ZAP' decimals place value
	<b>2</b>	<b>Data</b>	Solve difference, sum and comparison problems using information presented in line graphs	Fractions - add subtract and compare
	<b>3</b>	<b>Fractions and decimals</b>	Percentages as fractions Mixed number and improper fractions	
	<b>4</b>	<b>Measures</b>	Converting between different units of measure including problem solving Imperial measures Identify 3D shapes from 2D representations.	Written methods for multiplication and division.
	<b>5</b>	<b>Geometry</b>	Regular and irregular polygons Translation and reflection	Area and perimeter



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<b>Summer</b>	<b>1</b>	<b>Addition and subtraction</b>	Rounding decimals and to check calculations Multi step problems	Factors, multiples, square and cube numbers
	<b>2</b>	<b>Data</b>	Present information using ICT Read and interpret and complete information in tables	Roman numerals
	<b>3</b>	<b>Measures</b>	Volume Area of irregular shapes Converting between different units of measure including problem solving	Counting on and back using negative numbers
	<b>4</b>	<b>Multiplication and division</b>	Balancing equations Problem solving Prime factors and composite numbers	Converting units of measure
	<b>5</b>	<b>Revise and Revisit</b>	Long multiplication Division -short Angles on straight line	