

## Year 6 Maths Overview (2019-2020)



Includes a weekly times tables and arithmetic session throughout the year. Problem solving and reasoning is integrated into lessons. Sometimes lessons will have a problem solving focus where a specific problem solving skill may be taught, but generally, problem solving happens within the context of other lessons.

	1	2	3	4	5	6	7
<b>Term 1</b>	<u>Place Value</u> Read, write, order and compare numbers to 10,000,000 Round numbers up to 10,000,000	<u>Addition and Subtraction</u> Mental addition and subtraction Adding and subtracting decimals Multi-step addition and subtraction problems	<u>Geometry</u> Building 3D shapes Identifying and building nets for cubes, cuboids and shapes with triangular faces	<u>Multiplication</u> Formal method of short multiplication ThHTO x O and formal long multiplication from TO x TO and beyond Solve problems involving all four operations	<u>Fractions, factors and multiples</u> Use factors to simplify fractions Use multiples to express fractions in the same denomination Compare and order fractions Add and subtract fractions	<u>Addition and Subtraction</u> Use the formal written method of addition and subtraction Solve multi-step problems deciding operations and methods Use estimation to check accuracy of answers	
<b>Term 2</b>	<u>Decimals</u> Identify the value of each digit in a number with 3 decimal places Multiply and divide numbers by 10, 100 and 1000 up to 3 dps Multiply decimal Round decimals to specified degree of accuracy	<u>Measure – length</u> Converting units of length using decimal notation Convert between lengths to solve problems Convert between miles and kms		<u>Division</u> Identify common factors and multiples Use formal methods of short division to calculate ThHTO ÷ O Solve problems involving division	<u>Fractions, Decimals and Percentages</u> Decimal, fraction and percentage equivalents Calculating percentages	<u>Measure – Time</u> Converting units of time Problems involving time Finding the average speed Calculating speed	<u>Co-ordinates</u> Use co-ordinates to plot shapes Plot shapes in all 4 quadrants Translate shapes Reflect shapes
<b>Term 3</b>	<u>Place value and negative numbers</u> Negative numbers Negative problems Order of operations	<u>Algebra</u> An introduction to simple formulae Number sequences Building formulae Solving problems with unknowns and variables	<u>Geometry – shape</u> Drawing 2D shapes Reasoning about shapes and angles Vertically opposite angles All about angles	<u>Multiplication</u> Multiply HTO x TO using formal written methods Multiply decimals using mental methods Multiply decimals using the formal written method		<u>Measure – Mass</u> Convert between grams, kgs and tonnes to 3dps Solve problems involving grams and kgs	<u>Fractions</u> Adding and subtracting fractions Dividing fractions Multiplying fractions Fraction problems

<b>Term 4</b>	<b><u>Ratio and Proportion</u></b> Ratio and scale factors Ratio problems Proportion problems	<b><u>Statistics</u></b> Pie charts Line graphs Conducting a survey Finding the mean	<b><u>Division</u></b> Division ThHTO $\div$ O using the formal written method Dividing decimals using mental methods Dividing decimals using the formal written method Solving word problems	<b><u>Measure</u></b> Perimeter and area Surface area Area of triangles Area of parallelograms	<b><u>Addition, subtraction, multiplication and division</u></b> Mental addition and subtraction Missing numbers BIDMAS Word problems	<b><u>Algebra</u></b> Formulae and number sequences Algebra problems Linear equations Alternative solutions
<b>Term 5</b>	<b><u>Revision</u></b> Revision of all key concepts Complete practice SATs papers Fill any gaps		<b><u>Mock SATs</u></b>	<b><u>SATs</u></b>	<b><u>Geometry - Properties of Shapes</u></b> Drawing and naming circles Circle patterns Connecting midpoints	
<b>Term 6</b>	<b><u>Multiplying decimals</u></b> Multiplying decimals by a 2 digit number Solving word problems	<b><u>Fractions</u></b> Fractions, factors and multiples Adding and subtracting fractions Fraction division problems	<b><u>Measure – Volume and Capacity</u></b> Converting units of capacity Capacity problems Volume of cubes and cuboids Calculating volume and finding missing lengths	<b><u>Addition, subtraction, multiplication and division</u></b> BIDMAS BIDMAS problems Number puzzles Curious questions		<b><u>Maths Team Games</u></b> Decipher mathematical clues to solve mysteries Maths treasure hunt