

Maths Curriculum Overview

	Autumn	Spring	Summer
Year 6	<p style="text-align: center;">Number</p> <p>Place value – numbers to 1,000,000, numbers to 10,000,000, powers of 10, number line to 10,000,000, comparing and ordering any integers, rounding any integer, negative numbers</p>	<p style="text-align: center;">Number</p> <p>Ratio – using ratio language and the symbol, ratio and fractions scale drawing, using scale factors, similar shapes, ratio problems, proportion problems, recipes</p>	
	<p style="text-align: center;">Number</p> <p>Addition, subtraction, multiplication and division – adding and subtracting integers, common factors, common multiples, rules of divisibility, primes to 100, square and cube numbers, multiplying up to a 4-digit number by a 2-digit number, solving problems with multiplication, short division, division using factors, long division with remainders, solving problems, order of operations, mental calculations and estimations, reasoning from known facts</p>	<p style="text-align: center;">Number</p> <p>Algebra – 1 and 2 step function machines, forming expressions, substitution, formulae, form equations, solving 1-step and 2-step equations, finding pairs of values, solving problems with two unknowns</p>	
	<p style="text-align: center;">Number</p> <p>Fractions A – equivalent fractions and simplifying, equivalent fractions on a number line, comparing and ordering (denominator, then numerator), adding and subtracting fractions, adding and subtracting mixed numbers, multi-step problems</p>	<p style="text-align: center;">Number</p> <p>Decimals – place value within 1, place value of integers and decimals, rounding decimals, adding and subtracting decimals, multiplying and dividing by 10, 100 and 1,000, multiplying and dividing decimals by integers, multiplying and dividing decimals in context</p>	<p style="text-align: center;">Geometry</p> <p>Shape – measuring and classifying angles, calculating angles, vertically opposite angles, angles in a triangle (special cases and missing angles), angles in quadrilaterals, angles in polygons, circles, drawing shapes accurately, nets of 3D shapes</p>
	<p style="text-align: center;">Number</p> <p>Fractions B – multiplying fractions by integers, multiplying fractions by fractions, dividing fractions by integers, dividing fractions by fractions, mixed questions with fractions, fractions of an amount, finding the whole</p>	<p style="text-align: center;">Number</p> <p>Fractions, decimals and percentages – decimal and fraction equivalents, fractions as division, fractions to percentages, equivalent fractions, decimals and percentages, ordering fractions, decimals and percentages, percentage of an amount (one step and multi-step), making values</p>	<p style="text-align: center;">Geometry</p> <p>Position and direction – the first quadrant, reading and plotting points in four quadrants, solving problems with coordinates, translations, reflections</p>
	<p style="text-align: center;">Measurement</p> <p>Converting units – metric measures, converting metric measures, calculating with metric measures, miles and kilometres, imperial measures</p>	<p style="text-align: center;">Measurement</p> <p>Area, perimeter and volume – shapes (same area), area of a triangle (counting squares), area of a right-angled triangle, area of any triangle, area of a parallelogram, volume (counting cubes), volume of a cuboid</p> <p style="text-align: center;">Statistics</p> <p>Line graphs, dual bar charts, reading and interpreting pie charts, pie charts with percentages, drawing pie charts, the mean</p>	<p style="text-align: center;">Themed projects for consolidation and problem solving</p>