Maths Curriculum Overview

	Autumn	Spring	Summer
Year 5	**Number** Place value – roman numerals to 1,000, numbers to 10,000, 100,000 and 1,000,000 (reading and writing), powers of 10, 10/100/1,000/10,000/100,000 more or less, partitioning numbers up to 1,000,000, number line to 1,000,000, comparing and ordering numbers to 100,000 and 1,000,000, rounding to the nearest 10 / 100 / 1,000, rounding within 100,000 and 1,000,000 **Number** Addition and subtraction – mental strategies, adding and subtracting whole numbers with more than 4 digits, rounding to check answers, inverse operations, multistep problems, comparing calculations, finding missing numbers **Number** Multiplication and division A – multiples, common multiples, factors, common factors, prime numbers, square numbers, cube numbers, multiplying and dividing by 10, 100 and 1,000, multiples of 10, 100 and 1,000 **Number** Fractions A – finding fractions equivalent to unit and non-unit fractions, recognising equivalent fractions, converting improper fractions to mixed numbers and vice versa, comparing and ordering fractions less than / greater than 1, adding and subtracting fractions with the same denominator, adding fractions within 1, adding fractions with a total greater than 1, adding to a mixed number, adding two mixed numbers, subtracting fractions, subtracting from a mixed number (then breaking the whole), subtracting two mixed numbers	**Number** Multiplication and division B – multiplying up to a 4-digit number by a 1-digit number, multiplying 2-digit by 2-digit numbers (area model), multiplying 3-digit and 4-digit numbers by a 2-digit number, solving problems with multiplication, short division, dividing 4-digit numbers by 1-digit numbers, dividing with remainders, efficient division, problem solving **Number** Fractions B – multiplying unit and non-unit fractions by an integer, multiplying mixed numbers by integers, calculating fractions of quantities, fractions of amounts, finding the whole, using fractions as operators **Number** Decimals and percentages – decimals up to 2 decimal places, equivalent fractions and decimals (tenths and hundredths), thousandths as fractions and decimals, thousandths on a place value chart, ordering and comparing decimal numbers (up to 3 decimal places), rounding to the nearest whole number, rounding to 1 decimal place, percentages as fractions and decimals, equivalent fractions, decimals and percentages **Measurement** Perimeter and area – perimeter of rectangles and rectilinear shapes, perimeter of polygons, area of rectangles, area of compound shapes, estimating area **Statistics** Drawing line graphs, reading and interpreting line graphs, reading and interpreting tables, two-way tables, reading and interpreting timetables	**Geometry** Shape – understanding and using degrees, classifying angles, estimating angles, measuring angles up to 180º, drawing lines and angles accurately, calculating angles around a point and a straight line, lengths and angles in shapes, regular and irregular polygons, 3D shapes **Geometry** Position and direction – reading and plotting coordinates, problem solving with coordinates, translation, translation with coordinates, lines of symmetry, reflection in horizontal and vertical lines **Number** Decimals – using known facts to add and subtract decimals within 1, complements to 1, adding and subtracting decimals across 1, adding and subtracting decimals with the same and different numbers of decimal places, efficient strategies for adding and subtracting decimals, decimal sequences, multiplying and dividing by 10, 100 and 1,000, multiplying and dividing decimals with missing values **Number** Negative numbers – counting through zero in 1s, counting through zero in multiples, comparing and ordering negative numbers, finding the difference **Measurement** Converting units – kilograms and kilometres, millimetres and millilitres, converting units of length, converting between metric and imperial units, converting units of time, calculating with timetables **Measurement** Volume – cubic centimetres, comparing and estimating volume, estimating capacity