Year 5 Maths Programme of Study

NUMBER, PLACE VALUE & ROUNDING	ADDITION & SUBTRACTION	MULTIPLICATION & DIVISION	FRACTIONS & DECIMALS	MEASURES	GEOMETRY	DATA
			We will write percentages as a fraction.		We will identify, describe and represent the position of a shape following a reflection or translation.	
			We will recognise the % symbol and understand what it means.		We will distinguish between regular and irregular polygons.	
		I know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers	We will solve number problems up to 3 decimal places.		We will state and use the properties of a rectangle to deduce related facts.	
		We will multiply and divide whole numbers and those involving decimals by 10, 100 & 1000.	We will read, write, order and compare numbers with up to 3 decimal places.	We will solve problems involving addition and subtraction of units of measures using decimal notation.	We will draw shapes using given dimensions and angles.	
We will recognise years written in Roman numerals.	We will solve multi-step addition problems in contexts, deciding which operations and methods to use and why.	We will divide numbers up to 4 digits by a 1-digit number using an efficient written method.	We will round decimals with 2 decimal places to the nearest whole number and to one decimal place.	We will solve problems involving converting between units of time.	We will compare different angles.	
We will read Roman numerals to 1000 (M).	We will solve two-step subtraction problems deciding which operations and methods to use and why.	We will multiply numbers up to 4 digits by a 1 or 2-digit number.	We will recognise and use 1000ths and relate them to 10ths, 100ths and decimal equivalents.	We will recognise and estimate volume and capacity.	We will identify angles at a point and one whole turn.	
We will solve number problems and practical problems.	We will use rounding to check answers to calculations.	We will establish whether a number up to 100 is prime and recall prime numbers up to 19.	We will multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.	We will estimate the area of irregular shapes.	We will identify angles at a point on a straight line and 1/2 a turn.	We will read and interpret information in tables including timetables.
We will round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100, 000	We will subtract mentally using increasingly large numbers.	We will solve problems including scaling by simple fractions and simple rates.	We will read and write decimal numbers as fractions.	We will calculate and compare the area of squares and rectangles.	We will identify multiples of 90 degrees.	We will complete information in tables including timetables.
We will use negative numbers in context and can count forwards and backwards with positive and negative numbers through 0.	We will add mentally using increasingly large numbers.	We will solve problems using multiplication and division.	We will + and - fractions with the same denominator and related fractions.	We will measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.	We will draw a given angle, writing its size in degrees.	We will solve 'difference' problems using information presented in line graphs.
We will count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.	We will subtract numbers with more than 4 digits using efficient written methods.	We will identify multiples and factors, including finding all factor pairs.	We will recognise mixed numbers and improper fractions and convert from one form to another.	We will understand and use basic equivalences between metric and common imperial units.	We will know angles are measured in degrees and can estimate and measure them.	We will solve 'sum' problems using information presented in line graphs.
We will read, write, order and compare numbers to at least 1,000,000.	We will add numbers with more than 4 digits using efficient written methods.	We will recall multiplication and division facts for multiplication tables up to 12X12.	We will compare and order fractions whose denominators are all multiples of the same number.	We will convert between different units of measure (e.g. km to m; m and cm: cm and mm; kg and g; l and ml).	We will identify 3-D shapes, including cubes and cuboids, from 2-D representations.	We will solve 'comparison' problems using information presented in line graphs.