

Year 5 Maths Curriculum Overview Map										
Number – Number and Place Value	Number – Addition and subtraction	Number – Multiplication and division	Number – fractions (including decimals & %)	Measurement	Geometry – Properties of shape	Geometry – Position and direction	Statistics			
Pupils should be taught to: read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 solve number problems and practical problems and practical problems that involve all of the above read Roman numerals to 1000 (M) and recognise years written in	Pupils should be taught to: add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) add and subtract numbers mentally with increasingly large numbers use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	 Pupils should be taught to: identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers multiply and divide numbers mentally drawing upon known facts divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context 	 Pupils should be taught to: compare and order fractions whose denominators are all multiples of the same number identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, ²/₅ + ⁴/₅ = ⁶/₅ = 1 ¹/₅] add and subtract fractions with the same denominator and denominators that are multiples of the same number multiply proper fractions and mixed numbers by whole numbers, supported by materials and 	Pupils should be taught to: convert between different units of metric measure (for example, kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water] solve problems involving converting between units of time use all four operations to solve problems involving measure [for example, length,	Pupils should be taught to: identify 3-D shapes, including cubes and other cuboids, from 2-D representations know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles draw given angles, and measure them in degrees (°) identify: angles at a point and one whole turn (total 360°) angles at a point on a straight line and ½ a turn (total 180°) total 180°) use the properties of rectangles to deduce related facts and find missing lengths and angles distinguish between regular and irregular polygons based on	Pupils should be taught to: identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.	Pupils should be taught to: solve compariso n, sum and difference problems using information presented in a line graph complete, read and interpret information in tables, including timetables.			

Roman numerals.	 multiply and divide whole numbers and those involving decimals by 10, 100 	diagrams read and write decimal numbers as	mass, volume, money] using decimal notation, including scaling.	reasoning about equal sides and angles.	
	and 1000	fractions [for example, 0.71 =			
	 recognise and use square numbers and cube numbers, and 	71/100]			
	the notation for squared (²) and cubed (³)	 recognise and use thousandths and relate them to tenths, hundredths and 			
	solve problems involving	decimal equivalents			
	multiplication and division including	 round decimals with two decimal places to the nearest whole 			
	using their knowledge of factors and multiples, squares	number and to one decimal place			
	and cubes	 read, write, order and compare numbers 			
	 solve problems involving addition, subtraction, 	with up to three decimal places			
	multiplication and division and a combination of these, including	 solve problems involving number up to three decimal places 			
	understanding the meaning of the equals sign	recognise the per cent symbol (%) and			
	solve problems involving	understand that per cent relates to 'number of parts per			
	multiplication and division, including scaling by simple fractions and	hundred', and write percentages as a fraction with			
	problems involving simple rates.	denominator 100, and as a decimal			
	Simple rates.	 solve problems which require knowing percentage and decimal equivalents 			
		of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$			
		and those fractions with a denominator of a multiple of 10 or 25.			