Year Five

Number			
Number and Place Value	**Addition and Subtraction**	**Multiplication & Division**	**Fractions (decimals & percentages)**
Read, write, order and compare numbers to at least 1 000 000 and determines the value of each digit.	Add and subtract whole numbers with more than 4 digits, including using formal written methods.	Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers.	Compare and order fractions whose denominators are all multiples of the same number.
Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.	Add and subtract numbers mentally with increasingly large numbers.	Establish whether a number up to 100 is a prime number and recall prime numbers up to 19.	Identify, names and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.
Read Roman numerals to 1 000 (M) and recognise years in Roman numerals.		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.	Recognise mixed numbers and improper fractions, and convert from one to the other.
			Read and write decimal numbers as fractions.
		Multiply and divide numbers mentally.	Add and subtract fractions with the same denominator, and denominators that are multiples of the same number.
		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.	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
		Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.	Recognise and use thousandths and relate them to tenths, hundreds and decimal equivalents.
		Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3).	Round decimals with two decimal places to the nearest whole number and to one decimal place.

Year Five

			Read, write, order and compare numbers with up to 3 decimal places.
			Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal.

Shape, Space and Measure, and Statistics			
Measurement	**Geometry – Properties of shapes**	**Geometry – Position and direction**	**Statistics**
Convert between different units of metric measure (e.g. km and m; cm and m; cm and mm; g and kg; l and mm).	Draw given angles and measure them in degrees (˚).	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.	Complete, read and interpret information in tables, including timetables.
Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.	Identify angles at a point and one whole turn (total 360˚). Identify angles at a point on a straight line and ½ a turn (total˚)		
Measure and calculate the perimeter of composite rectilinear shapes in cm and m.	Identify other multiples of 90˚. Uses the properties of rectangles to deduce related facts and find missing lengths and angles.		
Calculate and compare the area of rectangles (inc. squares), and including standard units, sq cm (cm2) and sq m (m2) and estimate the area of irregular shapes.	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.		