Year 5		End of Year Expectations
Problem Solving		- I can solve number and practical problems using all of my number skills. - I can solve problems involving number up to three d.p. - I can solve problems using multiplication and division and a combination of these including understanding the equals sign. - I can solve problems involving multiplication and division including scaling by simple fractions and problems involving simple ratios. - I can solve problems which require knowing percentage and decimal equivalents of ½ , 1/4 1/5, 2/5, 4/5 and those with a denominator of a multiple of 10 or 25. - I can solve problems using multiplication and division using my knowledge of factors and multiples square and cubes. - Solve problems involving multiplying and adding, including integer scaling problems - I can solve problems involving converting between units of time. - I can use all four operations to solve problems including measure(e.g. length, mass, volume, money) using decimal notation including scaling.
Number	**Place Value**	- I can read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit. - I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through 0. - I can round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000. - I can read Roman numerals to 1,000 (M) and recognise years written in Roman numerals. - I can read, write, order and compare numbers with up to 3 d.p. - I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents I can round decimals with two d.p. to the nearest whole number and to one d.p.
	Counting	- I can count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000.
	Fractions and Decimals	- I can compare and order fractions whose denominators are multiples of the same number. - I can add and subtract fractions with the same denominator and multiples of the same number.

		- I can recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <1 as mixed numbers e.g. 2/5 + 4/5 = 6/5 = 1 1/5 - I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. - I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. - I can read and write decimal numbers as fractions - I can recognise the percent symbol (%) and understand percent means number of parts per hundred and write percentages as a fraction with a denominator 100 and as a decimal

Year 5		End of Year Expectations
Calculating	**Addition and Subtraction**	- I can add and subtract whole numbers with more than 4 digits including using formal written methods (columnar addition and subtraction). - I can add and subtract numbers mentally with increasingly large numbers I can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. - I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
	Multiplication and Division	- I can identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers. - I can multiply and divide numbers mentally using known facts. - I can divide numbers up to four-digits by a one-digit number using the formal written method of short division and interpret remainders appropriately and according to context - I can multiply numbers up to four-digits by a one- or two digit number using the formal written method including long multiplication for two digit numbers. - I know and use the vocabulary of prime numbers, prime factors and composite(non-prime) numbers. - I can tell whether a number up to 100 is a prime number and recall prime numbers up to 19. - I can recognise and use square numbers and cube numbers and their notation.

Year 5		End of year Expectations
Geometry	**Properties of Shape**	- I can identify 3D shapes, including cubes and cuboids, from 2D representations. - I know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. - I can draw given angles and measure them in degrees - I can identify angles at a point and one whole turn (total 360°) - I can identify angles at a point on a straight line and 1/2 turn (total 180°) - I can identify other multiples of 90°. - I can use the properties of rectangles to deduce related facts and find missing lengths and angles. - I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles
	Position and Direction	- I can identify, describe and represent the position of a shape following a reflection or translation, including the appropriate language, and know that the shape has not changed.
Measurement		- I can convert between different units of metric measure (e.g. km and m; cm and m; cm and mm; g and kg; l and ml). - I can measure and calculate the perimeter and area of composite rectilinear shapes in cm and m. - I can understand and use equivalences between metric units and common imperial units such as inches, pounds and pints. - I can calculate and compare the area of squares and rectangles including using standard units cm2 and m2 and estimate the area of irregular shapes. - I can estimate volume (e.g. using 1 cm3 blocks to build cubes and cuboids) and capacity (e.g. using water).
Statistics		- I can solve comparison, sum and difference problems using information presented in bar

	charts, pictograms, tables and line graphs .
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	- I can complete, read and interpret information in tables, including time tables.