

	Number – number & place value	Number – addition & subtraction	Number – multiplication & division	Number – Fractions (include. %'s & decimals)	Measurement	Geometry-properties of shapes	Geometry position & direction	Statistics
YEAR 5	<ul style="list-style-type: none"> Read, write, order & compare numbers to at least 1000000 & determine the value of each digit Count forwards & backwards in steps of powers of 10 for any given number up to 1000000 Interpret negative numbers in context, count forwards & backwards with positive & negative whole numbers, including through zero Round any number up to 1000000 to the nearest 10, 100, 1000, 10000, & 100000 Solve number problems & practical problems that involve all the above Read Roman numerals to 1000 (M) & recognize years written in Roman numerals 	<ul style="list-style-type: none"> Add & subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition & subtraction) Add & subtract numbers with increasingly large numbers Use rounding to check answers to calculations & determine, in the context of a problem, levels of accuracy Solve addition & subtraction multi-step problems in contexts, deciding which operations & methods to use & why. 	<ul style="list-style-type: none"> ID multiples & factors, including finding all factor pairs of a number, & common factors of two numbers Know & use the vocabulary of prime numbers, prime factors & composite (non-prime) numbers Establish whether a number up to 100 is prime & 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 & 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 & interpret remainders appropriately to the context Multiply & divide whole numbers & those involving decimals by 10, 100 & 1000 Recognise & use square numbers & cube numbers, & the notation for squared (²) & cubed (³) Solve problems involving multiplication & division including using their knowledge of factors & multiples, squares & cubes Solve problems involving addition, subtraction, multiplication & division & a combination of these, including understanding the meaning of the equals sign Solve problems involving multiplication & division, including scaling by simple fractions & problems involving simple rates 	<ul style="list-style-type: none"> Compare & order fractions whose denominators are all multiples of the same number Id , name & write equivalent fractions of a given fraction, represented visually, including tenths & hundredths Recognise mixed numbers & improper fractions & convert from one form to the other & write mathematical statements >1 as a mixed number (eg $2\frac{2}{5} + 4\frac{1}{5} = 6\frac{3}{5} = 11\frac{3}{5}$) Add & subtract fractions with the same denominator & denominators that are multiples of the same number Multiply proper fractions & mixed numbers by whole numbers, supported by materials & diagrams Read & write decimal numbers as fractions (eg $0.71 = \frac{71}{100}$) Recognise & use thousandths & relate them to tenths, hundredths & decimal equivalents Round decimals with 2 decimal places to the nearest whole number & to 1 decimal place Read, write, order & compare numbers up to 3 decimal places Recognise the per cent symbol (%) & understand that per cent relates to 'number of parts per hundred', & write percentages as a fraction with denominator 100, & as a decimal Solve problems which require knowing percentage & decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $1\frac{1}{5}$, $2\frac{2}{5}$, $4\frac{4}{5}$ & those fractions with a denominator of a multiple of 10 or 25 	<ul style="list-style-type: none"> Convert between different units of metric measure (eg km & m; cm & m; cm & mm; g & kg; l & ml) Understand & use approximate equivalents between metric units & common imperial units such as inches, pounds & pints Measure & calculate the perimeter of composite rectilinear shapes in cm's & m's Calculate & compare the area of rectangles (including squares), & including using standard units, square cm's (cm²) & square m's (m²) & estimate the area of irregular shapes Estimate volume (eg: using 1cm³ blocks to build cuboids (including cubes)) & capacity (eg: using water) Solve problems involving converting between units of time Use all four operations to solve problems involving measures (eg, length, mass, volume, money) using decimal notation, including scaling 	<ul style="list-style-type: none"> ID 3-D shapes, including cubes & other cuboids, from 2-D representations Know angles are measured in degrees; estimate & compare acute, obtuse & reflex angles Draw given angles & measure them in degrees (°) Identify <ul style="list-style-type: none"> Angles at a point & one whole turn (total 360 °) Angles at a point on a straight line & $\frac{1}{2}$ a turn (total 180 °) Other multiples of 90 ° Use the properties of rectangles to deduce related facts & find missing lengths & angles Distinguish between regular & irregular polygons based on reasoning about equal sides & angles 	<ul style="list-style-type: none"> ID, describe & represent the position of shape following a reflection or translation, using the appropriate language, & know that the shape has not changed 	<ul style="list-style-type: none"> Solve comparison, sum & difference problem using information presented in a line graph Complete, read & interpret information in tables, including timetables