

Mrs Kelsall Year 6	AUTUMN TERM	SPRING TERM	SUMMER TERM
<p>NUMBER, PLACE VALUE AND ALGEBRA</p>	<p>... read, write, order and compare numbers up to 10,000,000 ... determine the value of each digit in numbers up to 10,000,000. ... round any whole number to a required degree of accuracy ... generate and describe linear number sequences ... find pairs of numbers that satisfy an equation with two unknowns</p>	<p>... express missing number problems algebraically ... use negative numbers in context and calculate intervals across zero</p>	<p>... use a simple formulae ... enumerate possibilities of combinations of two variables</p>
<p>ADDITION, SUBTRACTION, MULTIPLICATION AND DIVISION</p>	<p>... multiply numbers up to 4 digits by a 2 digit using the formal written method ... identify common factors, common multiples and prime numbers ... divide numbers up to 4 digits by a 2 digit number using short division ... use estimation to check answers to calculations</p>	<p>... solve problems involving addition, subtraction, multiplication and division ... divide numbers (4 digits by a 2 digit number) using a formal written method ... interpret remainders as whole number, fractions, or round, as appropriate ... solve +ion and - ion multi-step problems, deciding which operations to use and why ... know the order of operations to carry out calculations</p>	<p>... perform mental calculations, including with mixed operations & large numbers ... use estimation to check, determining an appropriate degree of accuracy ... identify the value of each digit to 3 decimal places and \times and \div numbers by 10, 100 and 1000 giving answers up to 3 decimal places ... multiply numbers with up to 2 decimal places by whole numbers ... use written division methods in cases where the answer has up to 2 decimal places</p>
<p>RATIO AND PROPORTION</p>	<p>... solve problems involving the relative sizes of two quantities, using \timesion and \divion ... solve problems involving the calculation of percentages and comparisons</p>	<p>... solve problems involving similar shapes where the scale factor is known or can be found ... solve problems involving the use of percentage comparisons</p>	<p>... solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</p>

<p>MEASUREMENTS</p>	<p>... use, read, write and convert between standard units ... convert measures of length, mass, volume and time using decimals up to 3dp</p>	<p>... recognise that shapes with the same areas can have different perimeters ... convert between miles and kilometres ... calculate the area of parallelograms and triangles ... recognise when it is possible to use the formulae for the area of shapes</p>	<p>... calculate, estimate and compare volume of cubes and cuboids, using standard units. ... recognise when it is possible to use the formulae for the volume of shapes. ... solve problems involving the calculation and conversion of units of measure</p>
<p>FRACTIONS, DECIMALS AND PERCENTAGES</p>	<p>... use common factors and multiples to simplify fractions and find equivalents ... compare and order fractions, including fractions >1</p>	<p>... associate a fraction with division to calculate decimal fractions equivalents ... divide proper fractions by whole numbers ... multiply simple pairs of proper fractions, writing the answer in the simplest form</p>	<p>... add and subtract fractions with different denominators and mixed numbers, using equivalent fractions ... solve problems which require rounding to degrees of accuracy ... recall and use equivalences between simple fractions, decimals and percentages, in different contexts</p>
<p>GEOMETRY</p>	<p>... draw 2D shapes given dimensions and angles ... find unknown angles in any triangles, quadrilaterals and regular polygons ... describe positions on the full co-ordinate grid (all four quadrants)</p>	<p>... draw and translate simple shapes and reflect them in the axis ... recognise angles at a point, on a straight line, or vertically opposite, and find missing angles ... illustrate and name parts of circles, including radius, diameter and circumference ... know the diameter is twice the radius</p>	<p>... describe, recognise and build 3D shapes, including making nets ... compare and classify geometric shapes based on the properties and sizes ... draw and translate simple shapes, and reflect them in the axes</p>
<p>STATISTICS</p>	<p>... interpret pie charts ... interpret line graphs ... calculate and interpret the mean as an average</p>	<p>... interpret pie charts and line graphs and use these to solve problems</p>	<p>... construct pie charts and line graphs</p>

