



Year 6 – End of Year Maths Targets



Number and place value	Addition, subtraction, multiplication and division	Fractions, decimals and percentages	Ratio and proportion	Measurement
<ul style="list-style-type: none"> ❖ read, write, order and compare numbers up to 10 000 000 and determine the value of each digit ❖ round any whole number to a required degree of accuracy ❖ use negative numbers in context, and calculate intervals across zero ❖ solve number and practical problems that involve all of the above 	<ul style="list-style-type: none"> ❖ multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication ❖ divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context ❖ divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context ❖ perform mental calculations, including with mixed operations and large numbers ❖ identify common factors, common multiples and prime numbers ❖ use their knowledge of the order of operations to carry out calculations involving the four operations ❖ solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why ❖ solve problems involving addition, subtraction, multiplication and division ❖ use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy 	<ul style="list-style-type: none"> ❖ use common factors to simplify fractions; use common multiples to express fractions in the same denomination ❖ compare and order fractions, including fractions > 1 ❖ add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions ❖ multiply simple pairs of proper fractions, writing the answer in its simplest form ❖ divide proper fractions by whole numbers ❖ associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction ❖ identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places ❖ multiply one-digit numbers with up to two decimal places by whole numbers ❖ use written division methods in cases where the answer has up to two decimal places ❖ solve problems which require answers to be rounded to specified degrees of accuracy ❖ recall and use equivalences between simple fractions, decimals and percentages, including in different contexts 	<ul style="list-style-type: none"> ❖ solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts ❖ solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison ❖ solve problems involving similar shapes where the scale factor is known or can be found ❖ solve problems involving unequal sharing and grouping using knowledge of fractions and multiples 	<ul style="list-style-type: none"> ❖ solve problems involving the calculation and conversion of units of measure, using ❖ use, read, write and convert between standard units ❖ convert between miles and kilometres ❖ recognise that shapes with the same areas can have different perimeters and vice versa ❖ recognise when it is possible to use formulae for area and volume of shapes ❖ calculate the area of parallelograms and triangles ❖ calculate, estimate and compare volume of cubes and cuboids
Statistics			Algebra	Geometry
<ul style="list-style-type: none"> ❖ interpret and construct pie charts and line graphs and use these to solve problems ❖ calculate and interpret the mean as an average 			<ul style="list-style-type: none"> ❖ use simple formulae ❖ generate and describe linear number sequences ❖ express missing number problems algebraically ❖ find pairs of numbers that satisfy an equation with two unknowns ❖ enumerate possibilities of combinations of two variables 	<ul style="list-style-type: none"> ❖ draw 2-D shapes using given dimensions and angles ❖ recognise, describe and build simple 3-D shapes, including making nets ❖ compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons ❖ illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius ❖ recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles ❖ describe positions on the full coordinate grid (all four quadrants) ❖ draw and translate simple shapes on the coordinate plane, and reflect them in the axes