

Mathematics
Year 6 Key Objectives

<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Use their knowledge of the order of operations to carry out calculations involving the four operations
<ul style="list-style-type: none">• Use common factors to simplify fractions
<ul style="list-style-type: none">• Compare and order fractions, including fractions > 1
<ul style="list-style-type: none">• Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
<ul style="list-style-type: none">• Multiply simple pairs of proper fractions, writing the answer in its simplest form
<ul style="list-style-type: none">• Divide proper fractions by whole numbers
<ul style="list-style-type: none">• Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction
<ul style="list-style-type: none">• Multiply one-digit number with up to two decimal places by whole numbers
<ul style="list-style-type: none">• Use written division methods in cases where the answer has up to two decimal places
<ul style="list-style-type: none">• Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Solve problems involving similar shapes where the scale factor is known or can be found
<ul style="list-style-type: none">• Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
<ul style="list-style-type: none">• Use simple formulae
<ul style="list-style-type: none">• Generate and describe linear number sequences
<ul style="list-style-type: none">• Express missing number problems algebraically
<ul style="list-style-type: none">• Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places
<ul style="list-style-type: none">• Convert between miles and kilometres

<ul style="list-style-type: none">• Calculate the area of parallelograms and triangles
<ul style="list-style-type: none">• Calculate, estimate and compare volume of cubes and cuboids using standard units
<ul style="list-style-type: none">• Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
<ul style="list-style-type: none">• Find unknown angles in any triangles, quadrilaterals, and regular polygons
<ul style="list-style-type: none">• Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles
<ul style="list-style-type: none">• Describe positions on the full coordinate grid (all four quadrants)
<ul style="list-style-type: none">• Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
<ul style="list-style-type: none">• Interpret and construct pie charts and line graphs
<ul style="list-style-type: none">• Calculate and interpret the mean as an average