



## National Curriculum Objectives – Maths

### Year 6 Maths - Key Objectives

Use negative numbers in context, and calculate intervals across zero

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 as appropriate

Use their knowledge of the order of operations to carry out calculations involving the four operations

Use common factors to simplify fractions

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

Multiply one-digit number 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 involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison

Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

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 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

Use simple formulae

Generate and describe linear number sequences

Express missing number problems algebraically

Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit to a larger unit and vice versa, using decimal notation to up to 3 decimal places

Convert between miles and kilometres

Calculate the area of parallelograms and triangles

Calculate, estimate and compare volume of cubes and cuboids using standard units

Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius

Find unknown angles in any triangles, quadrilaterals, and regular polygons

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



## National Curriculum Objectives – Maths

Interpret and construct pie charts and line graphs

Calculate and interpret the mean as an average