Year 6 Maths Key Skills

Holymead Primary

Place Value	• I can read and write numbers up to 10 million • I can demonstrate an understanding of place value, including identifying the value of each digit • I can round numbers to the given degree of accuracy • I can calculate across zero using negative numbers
Times Tables & Arithmetic	• I can recall all of my times tables and division facts up to 12 • I can multiply up to four digits by a two digit number using the formal method for long multiplication • I can divide numbers up to four digits by a two digit whole number using the formal written method of long division • I can interpret remainders in division according to the context • I can perform mental calculations for the four operations (e.g. 60,000-600) • I can identify prime numbers, square numbers and cubed numbers • I can identify common factors and common multiples of numbers • I can use my knowledge of BODMAS (order of operations) to carry out calculations using the four operations • I can solve problems involving the four operations • I can solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts
Fractions	• I can simplify fractions using my knowledge of common multiples • I can compare and order fractions including fractions greater than 1 • I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions • I can multiply simple pairs of proper fractions, writing the answer in its simplest form • I can multiply a fraction by a whole number • I can divide proper fractions by whole numbers • I can recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

	• I can solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison • I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
Geometry: properties of shapes	• I can draw 2-D shapes using given dimensions and angles • I can recognise, describe and build simple 3-D shapes, including making nets • I can compare and classify geometric shapes based on their properties and sizes • I can find unknown angles in any triangles, quadrilaterals, and regular polygons • I can illustrate and name parts of circles, including radius, diameter and circumference • I can recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. • I can describe positions on the full coordinate grid • I can draw and translate simple shapes on the coordinate plane, and reflect them in the axes. • I can solve problems involving similar shapes where the scale factor is known or can be found
Measures	• I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate • I can use, read, write and convert between standard units, converting measurements of length, mass, volume and time • I can convert between miles and kilometres (using 5 miles = 8km) • I can recognise that shapes with the same areas can have different perimeters and vice versa • I can recognise when it is possible to use formulae for area and volume of shapes • I can calculate the area of parallelograms and triangles • I can calculate, estimate and compare volume of cubes and cuboids using standard units
Statistics	• I can interpret and construct pie charts and line graphs and use these to solve problems • I can calculate and interpret the mean as an average.