

Mathematics Yearly Objectives Assessment

Year Six:

I can enumerate possibilities of combinations of two variables.						
I can find pairs of numbers that satisfy an equation with two unknowns.	I can identify common factors, common multiples and prime numbers.					
I can generate and describe linear number sequences.	I can use estimation to check answers to calculations.			I can use a number line to add and subtract positive and negative integers for measures such as temperature.	I can describe positions on the full co-ordinate grid (all four quadrants).	
I can use simple formulae expressed in words.	I can solve problems involving all operations.	I can solve ratio and proportion problems involving unequal sharing and grouping.	I can recall and use equivalence between simple fractions, decimals and percentages.	I can calculate, estimate and compare volume of cubes and cuboids using cubic mm and cubic km.	I can draw and translate simple shapes on the coordinate plane, and reflect them in the axes.	
I can express missing number problems algebraically.	I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	I can solve ratio and proportion problems involving the relative sizes of two quantities, including similarity.	I can solve problems involving the calculation of percentages of whole numbers or measures such as 15% of 360.	I can calculate, estimate and compare volume of cubes and cuboids using cubic cm and cubic m.	I can find unknown angles where they meet at a point, are on a straight line, and are vertically opposite or missing angles.	I can convert kilometres to miles using a graphical representation.
I can solve number and practical problems involving negative numbers and whole numbers.	I can use knowledge of the order of operations to carry out calculations involving the four operations.	I can divide proper fractions by whole numbers (e.g. $1/3 \div 2 = 1/6$)	I can solve problems involving similar shapes where the scale factor is known or can be found.	I can recognise and use formulae for area and volume of shapes.	I know that the diameter of a circle is twice the radius.	I can draw graphs relating two variables.
I can calculate intervals across '0' when using negative numbers.	I can calculate mentally including mixed number operations and large numbers.	I can multiply simple pairs of proper fractions, writing the answer in its simplest form.	I can solve problems which requires answers to be rounded to specific degrees of accuracy.	I can calculate area and perimeter of parallelograms and triangles.	I can illustrate parts of circles, including radius, diameter and circumference.	I can calculate and interpret the mean as an average.
I can use negative numbers in context.	I can divide numbers up to 4 digits by a 2-digit number using an efficient written method of short division.	I can add and subtract fractions with different denominators and mixed numbers.	I can use written division methods where the answer has up to 2 decimal places.	I can recognise shapes with the same areas can have different perimeters and vice versa.	I can find unknown angles in any triangles, quadrilaterals and regular polygons.	I can construct pie charts.
I can round any whole number to nearest 10, 100, 1000, 10,000, 100,000, 1,000,000 (the required degree of accuracy).	I can round remainders, write them as fractions and decimals.	I can associate a fraction with division to calculate decimal fraction equivalents (e.g. 0.375) for simple fractions (e.g. $3/8$)	I can multiply one-digit numbers with up to 2 decimal places by whole numbers.	I can solve problems involving calculation and conversion of units of measure, using decimal notation to 3 decimal places where appropriate.	I can draw 2-D shapes using given dimensions and angles.	I can interpret pie charts and use them to solve problems.
I can determine the value of each digit in numbers up to 10,000,000.	I can divide numbers up to 4 digits by a 2-digit whole number using an efficient written method of long division.	I can compare and order fractions, including fractions > 1	I can multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places.	I can convert between miles and kilometres.	I can compare and classify geometric shapes based on their properties and sizes.	I can construct line graphs.
I can read, write, order and compare numbers up to 10,000,000	I can multiply multi-digit numbers up to 4 digits by a 2-digit whole number using an efficient written method of long multiplication.	I can use common factors to simplify fractions and use common multiples to express fractions in the same denomination.	I can identify the value of each digit to three decimal places.	I can use, read, write and convert between standard units of measure (mass, length, volume and time).	I can recognise, describe and build simple 3-D shapes, including making nets.	I can interpret line graphs and use them to solve problems.
Number and Algebra	+, -, X, ÷	Fractions Ratio and Proportion	Fractions, Decimals and Percentages	Measures	Geometry	Statistics