





### Mathematics Assessment Tracking Grids - Year Six

Ratio and Proportion	I can begin to solve problems involving two quantities or values by using multiplication and division facts								
	I can solve problems involving the calculation of simple percentages [multiples of 5 and 10] and begin to use percentages for comparison								
	I can solve problems involving similar shapes where the scale factor is known								
	I can begin to solve problems involving unequal sharing and grouping								







## Mathematics Assessment Tracking Grids - Year Six

Fractions Including Decimals and Percentages	I can use common factors to simplify fractions; use common multiples to express fractions in the same denomination								
	I can compare and order fractions, including fractions $> 1$								
	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 [for example, $1/4 \times 1/2 = 1/8$ ]								
	I can divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$ ]								
	I can associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $3/8$ ]								
	I can 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								
	I can use written division methods in cases where the answer has up to two decimal places								
	I can solve problems which require answers to be rounded to specified degrees of accuracy								
	I can recall and use equivalences between simple fractions, decimals and percentages, including in different contexts								





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Algebra	I can use simple formulae								
	I can generate and describe linear number sequences								
	I can express missing number problems algebraically								
	I can find pairs of numbers that satisfy an equation with two unknowns								
	I can enumerate possibilities of combinations of two variables								
Measurement	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 from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places								
	I can convert between miles and kilometres								
	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, including cubic centimetres (cm <sup>3</sup> ) and cubic metres (m <sup>3</sup> ), and extending to other units [for example, mm <sup>3</sup> and km <sup>3</sup> ]								





## Mathematics Assessment Tracking Grids - Year Six

<b>Fractions Including Decimals and Percentages</b>	I can use common factors to simplify fractions, justifying when fractions are in their simplest form								
	I can compare and order fractions, decimals and percentages								
	I can solve problems involving the addition and subtraction of mixed fractions								
	I can multiply pairs of proper fractions, writing the answer in its simplest form								
	I can divide proper fractions by another proper fraction, with some support								
	I can associate a fraction with division and calculate decimal fraction equivalents								
	I can multiply or divide numbers by any power of 10								
	I can use written division methods in cases where the answer has up to three decimal places								
	I can solve increasingly complex problems which require answers to be rounded to specified degrees of accuracy								
	I can fluently recall and use equivalences between fractions, decimals and percentages, including in different contexts								

<b>Ratio and Proportion</b>	I can solve increasingly problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts								
	I can solve problems involving the calculation of percentages in a wide range of contexts								
	I can solve increasingly complex problems involving similar shapes where the scale factor is known or can be found								
	I can solve increasingly complex problems involving unequal sharing and grouping using knowledge of fractions and multiples								



