



## Mathematics Assessment Tracking Grids - Year Five

<b>Multiplication and Division</b>	I can identify all factor pairs of a number								
	I can identify multiples								
	I understand what makes a number prime and can identify prime numbers up to 11								
	I can multiply numbers up to 3 digits by a two digit number using a formal written layout								
	I can multiply and divide numbers up to 12 x 12 mentally, including multiplying three or more numbers								
	I can divide numbers up to three digits by a one digit number, using formal written layout								
	I can multiply and divide whole numbers by 10, 100 and 1000 and identify the value of each digit								
	I can recognise and use square numbers and the correct notation								
	I can solve problems involving multiplication and division, including using my knowledge of factors, multiples and squares								
	I can solve two step problems involving the four operations and a combination of these, including understanding the meaning of the equals sign								
	I can solve problems involving multiplication and division, including those involving simple rates								



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Measurement	I can convert between some units of metric measure								
	I can measure and calculate the perimeter of composite rectilinear shapes, including by using squares								
	I can calculate the area of rectilinear shapes and estimate the area of irregular shapes using squares								
	I can estimate capacity using a variety of containers								
	I can solve problems involving converting between units of time								
	I can use all four operations to solve problems involving measurement								
Geometry - Properties of Shape	I can identify cubes from 2D representations								
	I know angles are measured in degrees and I can compare acute, obtuse and reflex angles								
	I can draw given angles, within accuracy of 5 degrees and measure them in degrees								
	I can identify: <ul style="list-style-type: none"> <li>Angles at a point and one whole turn</li> <li>Angles on a straight line and <math>\frac{1}{2}</math> a turn</li> </ul>								
	I can use the properties of triangles to find missing angles								
	I understand what the terms regular and irregular mean								





## Mathematics Assessment Tracking Grids - Year Five

Multiplication and Division	I can identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers								
	I know and can use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers								
	I can establish whether a number up to 100 is prime and recall prime numbers up to 19								
	I can multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers								
	I can multiply and divide numbers mentally drawing upon known facts								
	I can divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context								
	I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 recognise and use square numbers and cube numbers, and the notation for squared ( 2 ) and cubed ( 3 )								
	I can solve problems involving multiplication and division including using my knowledge of factors and multiples, squares and cubes								
	I can solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign								
	I can solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates								

## Mathematics Assessment Tracking Grids - Year Five

Fractions (including decimals and percentages)	I can compare and order fractions whose denominators are all multiples of the same number								
	I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths								
	I can recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements $> 1$ as a mixed number								
	I can add and subtract fractions with the same denominator and denominators that are multiples of the same number								
	I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams								
	I can read and write decimal numbers as fractions [for example, $0.71 = 71/100$ ]								
	I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents								
	I can round decimals with two decimal places to the nearest whole number and to one decimal place								
	I can read, write, order and compare numbers with up to three decimal places								
	I can solve problems involving number up to three decimal places								
	I can recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal								
	I can solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{3}{4}$ , $\frac{1}{5}$ , $\frac{2}{5}$ , $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25.								





## Mathematics Assessment Tracking Grids - Year Five

Geometry - Properties of Shape	I can identify 3-D shapes, including cubes and other cuboids, from 2-D representations								
	I know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles								
	I can draw given angles, and measure them in degrees (o)								
	I can identify: <ul style="list-style-type: none"> <li>angles at a point and one whole turn (total 360o)</li> <li>angles at a point on a straight line and 1/2 a turn (total 180o)</li> <li>other multiples of 90o</li> </ul>								
	I can use the properties of rectangles to deduce related facts and find missing lengths and angles								
	I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles								
Geometry - Position and Direction	I can identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.								
Statistics	I can solve comparison, sum and difference problems using information presented in a line graph								
	I can complete, read and interpret information in tables, including timetables								





## Mathematics Assessment Tracking Grids - Year Five

Fractions (including decimals and percentages)	I can compare and order fractions								
	I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths, cancelling fractions to their simplest form								
	I can add and subtract fractions with denominators that are multiples of the same number								
	I can multiply pairs of proper fractions, writing the answer in its simplest form								
	I can read and write decimal numbers as fractions up to thousandths								
	I can round decimals with three decimal places to the nearest whole number and to one, two and three decimal places								
	I can read, write, order and compare numbers with any number of decimal places								
	I can solve problems involving number up to three decimal places, rounding the answer appropriately								
	I can solve problems which require knowing percentage and decimal equivalents of a variety of fractions								



