



Mathematics Assessment Criteria: Year 6 denotes MET + Mastery Indicators

Year 6 Stage 1		Year 6 Stage 2		Year 3 Stage 3 MET	
I can read and write numbers up to 10 000 000 (ten million)		I can order numbers up to 10 000 000		I can compare numbers up to 10 000 000 and determine the value of each digit	
I can order negative numbers on a numberline		I can calculate intervals involving negative numbers across zero <i>e.g. the interval between -6 and 7 is 13</i>		I can solve problems involving negative numbers in context <i>e.g. temperature difference, profit/loss</i>	
I can round any whole number accurately to 10 000		I can round any whole number accurately to 100 000		I can round any whole number accurately to 1 000 000	
I can solve number problems that involve rounding and place value		I can practical problems that involve place value & rounding		I can create and solve number and practical problems that involve place value & rounding	
I can round answers to the nearest 10, 20, 50 or 100		I can estimate the answer to a calculation problem and determine, in the context of a problem, a degree of accuracy		I can perform mental calculations (+, -), including with mixed operations and large numbers	
I can multiply ThHTO x TO using long multiplication		I can divide ThHTO ÷ TO using long division with remainders		I can divide ThHTO ÷ TO using long division interpreting remainders as decimals	
I can divide HTO ÷ TO using short division					
I can multiply 0.th x O <i>e.g. £1.42 x 2 = £2.84</i>		I can divide ThHTO ÷ TO using long division, interpreting remainders as fractions <i>e.g. 432 ÷ 15 = 28¹²/₁₅ or 28⁴/₅ or by rounding depending on the context</i>		I can use a written division method in cases where the answer has up to two decimal places	
I can perform mental calculations with mixed operations <i>e.g. (12 x 6) + (8 x 7)</i>		I can perform mental calculations with mixed operations and larger numbers <i>e.g. (54 x 8) - 222</i>		I can estimate to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy	
I can identify common factors of two numbers <i>e.g. 5 and 7 are both common factors of 35 and 105</i>		I can identify common multiples of two numbers <i>e.g. common multiples of 4 and 6 are 12, 24, 36...</i>		I can identify common prime numbers	
I can solve multi-step problems in contexts involving addition and subtraction, deciding which operations and methods to use and why		I can solve problems that involve all four operations		I use my knowledge of the <i>order</i> of operations to carry out calculations involving the four operations <i>e.g. (8 - 3) + 5 x 6 = 35</i>	
I can multiply and divide decimal numbers by 10, 100, 1000 giving answers to three decimal places <i>e.g. 23.6 ÷ 1000 = 0.024</i>		I can compare fractions with different denominators using < > = symbols		I can compare and order fractions with different denominators, including those greater than 1	
I can add fractions with different denominators and mixed numbers using equivalent fractions to help <i>e.g. 1/3 + 1/4 = 7/12</i>		I can use common factors to simplify fractions <i>e.g. 18/30 simplifies to 3/5 as 6 is a common factor</i>		I can use common multiples to express fractions in the same denomination <i>e.g. 1/2 + 1/8 = 5/8</i>	
I can subtract fractions with different denominators and mixed numbers using equivalent fractions to help <i>e.g. 1/3 - 1/4 = 1/12</i>		I can multiply simple pairs of proper fractions <i>e.g. 1/4 x 1/2 = 1/8</i> writing the answer in its simplest form		I can divide proper fractions by whole numbers <i>e.g. 1/3 ÷ 2 = 1/6</i>	
I understand how fractions link to division <i>e.g. 2/5 is 2 ÷ 5</i>		I can calculate decimal equivalents for a simple fraction <i>e.g. 3/8 = 0.375</i>		I can find percentages of quantities	
I know the fraction, decimal and percentage equivalents for all halves, quarters, fifths and tenths		I know the fraction, decimal and percentage equivalents for all sixths and eighths <i>e.g. 5/8 = 0.625 = 62.5%</i>			
I can compare relative proportions by comparing the parts to the whole ["in every"] <i>e.g. 3 red marbles in a bag of 10 compared to 7 red marbles in a bag of 20.</i>		I can solve problems with simple ratios ["for every"] <i>e.g. share 10 sweets in the ratio 2:3</i>		I can solve problems involving calculation of percentages <i>e.g. 15% of 360 for a pie chart</i>	
I can solve problems involving similar shapes where the scale factor is known or can be found		I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples <i>e.g. 3/5 of the class are boys</i>			



Mathematics Assessment Criteria: Year 6 denotes MET + Mastery Indicators

I can use simple formulae <i>e.g. $A = l \times b$ to calculate area of a rectangle</i>		I can generate and describe linear number sequences <i>e.g. $2n + 1 = 1, 3, 5, 7, 9...$</i>		I can enumerate possibilities of combinations of two variables
I can use formulae <i>e.g. $a + b + c = 180^\circ$ to calculate angles of a triangle</i>		I can express missing number problems algebraically <i>e.g. $5 \times \square = 35$ can be expressed as $5n = 35$</i>		I can find pairs of numbers that satisfy an equation with two unknowns <i>e.g. $x + y = 13$</i>
I can solve problems and convert between smaller and larger units of length using decimal notation to 3dp (decimal places) <i>e.g. $23.4cm = 0.234m$</i>		I can solve problems and convert between smaller and larger units of mass using decimal notation to 3dp (decimal places) <i>e.g. $2.045kg = 2045g$</i>		I can solve problems and convert between smaller and larger units of volume using decimal notation to 3dp (decimal places) <i>e.g. $4302ml = 4.302l$</i>
I can convert between miles and kilometres using the approximate equivalence of 1 mile = 1.6 km		I can convert between smaller and larger units of time remembering to work in base 60 <i>e.g. $145 \text{ minutes} = 2\text{hrs } 25\text{mins}$</i>		I can construct line graphs to show conversions between units <i>e.g. miles to kilometres, kilograms to pounds</i>
I can calculate the area of rectangles using $A = l \times b$		I can recognise that shapes with the same areas can have different perimeters and vice versa.		I can calculate the area of triangles and parallelograms by relating them to rectangles
I can calculate the volume of a cuboid using $V = a \times b \times c$		I can estimate the volume of a cube or cuboid in cm^3 and m^3		I can compare the volume of cubes and cuboids in cm^3 and m^3
I can solve problems involving metres per second		I can solve problems involving miles per hour		
I can draw 2-D using given dimensions and angles		I can label my 2-D shape drawings using correct notation		
I can construct and name 3-D shapes using resources		I can construct nets for simple 3-D shapes <i>e.g. cubes, pyramids, prisms</i>		
I can compare and classify geometric shapes based on their properties		I can find unknown angles in any triangle using $a = 180 - (b + c)$		I can find unknown angles in any quadrilateral using $a = 360 - (b + c + d)$
I can illustrate and name parts of circles including radius, diameter and circumference		I know that the diameter of a circle is twice the radius		I can use $d = 2 \times r$ to help calculate lengths of parts of circles
I can identify angles where lines meet at a point		I can annotate and calculate any angles on a straight line knowing that they total 180°		I can use knowledge of angles of straight lines, triangles and complete turns to calculate missing angles
I can use co-ordinates to describe positions in all four quadrants of a grid		I can draw and translate simple shapes on the coordinate plane, and reflect them in the axes		I can predict missing co-ordinates of rectangles, parallelograms and rhombuses using known properties of shape
I can calculate and interpret the mean average of a set of data		I can interpret and construct pie charts and line graphs		I can use pie charts and line graphs to solve problems

*up to ten multiples of the number