

Maths Standard 6 (Year 6)

Name: _____

Standard 6 is the aspirational expectation for pupils by the end of Year 6.

Area		Bold statements are Key performance Indicators	Secure
Number	Place Value	Reads, writes, orders and compares numbers up to 10 000 000 and determines the value of each digit	
		Rounds any whole number to a required degree of accuracy	
		Uses negative numbers in context, and calculates intervals across zero	
		Solves number and practical problems that involve all of the above	
	+ & -	Solves addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	
		Performs mental calculations, including those with mixed operations and large numbers	
	X & ÷	Multiplies multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication	
		Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context	
		Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context	
		Identifies common factors, common multiples and prime numbers	
		Uses their knowledge of the order of operations to carry out calculations involving the four operations	
		Solves problems involving addition, subtraction, multiplication and division	
		Uses estimation to check answers to calculations and determines, in the context of a problem, an appropriate degree of accuracy	
	Fractions, decimals and %	Uses common factors to simplify fractions; uses common multiples to express fractions in the same denomination	
		Compares and orders fractions, including fractions > 1	
		Adds and subtracts fractions with different denominators and mixed numbers, using the concept of equivalent fractions	
		Multiplies simple pairs of proper fractions, writing the answer in its simplest form	
		Divides proper fractions by whole numbers	
		Associates a fraction with division and calculates decimal fraction equivalents	
		Identifies the value of each digit in numbers given to three decimal places and multiplies and divides numbers by 10, 100 and 1000 giving answers up to three decimal place	
		Multiplies one-digit numbers with up to two decimal places by whole numbers	
		Solves problems which require answers to be rounded to specified degrees of accuracy	
	Recalls and uses equivalences between simple fractions, decimals and percentages, including those in different contexts.		
	Algebra	Uses simple formulae	
		Generates and describes linear number sequences	
		Expresses missing number problems algebraically	
		Finds pairs of numbers that satisfy an equation with two unknowns	
Ratio/Proportion	Enumerates possibilities of combinations of two variables		
	Solves problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts		
	Solves problems involving the calculation of percentages		
	Solves problems involving the use of percentages for comparison		
	Solves problems involving similar shapes where the scale factor is known or can be found		
	Solves problems involving unequal sharing and grouping using knowledge of fractions and multiples		

Shape, Space, Measures and Statistics			
Measures		Solves problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate	
		Uses, reads, writes and converts 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	
		Converts between miles and kilometres	
		Recognises that shapes with the same areas can have different perimeters and vice versa	
		Recognises when it is possible to use formulae for area and volume of shapes	
		Calculates the area of parallelograms and triangles	
		Calculates, estimates and compares volume of cubes and cuboids using standard units, including cubic centimetres (cm ³) and cubic metres (m ³), and extending to other units	
Shape		Draws 2-D shapes using given dimensions and angles	
		Recognises, describes and builds simple 3-D shapes, including making nets	
		Compares and classifies geometric shapes based on their properties and sizes and finds unknown angles in any triangles, quadrilaterals, and regular polygons	
		Illustrates and names parts of circles, including radius, diameter and circumference and knows that the diameter is twice the radius	
		Recognises angles where they meet at a point, are on a straight line, or are vertically opposite, and finds missing angles	
Position		Describes positions on the full coordinate grid (all four quadrants)	
		Draws and translates simple shapes on the coordinate plane, and reflects them in the axes	
Statistics		Interprets and constructs pie charts and line graphs and uses these to solve problems	
		Calculates and interprets the mean as an average	

Beginning + = At least 5 **KPIs** and at least 10 statements overall

Developing = At least 7 **KPIs** and at least 12 statements overall

Developing + = At least 10 **KPIs** and at least 20 statements overall

Secure = At least 16 **KPIs** and at least 29 statements overall

Exceeding = At least 21 **KPIs** and at least 39 statements overall

