DAYS LANE PRIMARY SCHOOL

Y6 National Curriculum MATHS Assessment Grid

Y6 expected standard		*Evidence – 6 pieces*					
	NUMBER	**Dates:**					
Number & Place Value	Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit						
	Round any whole number to a required degree of accuracy						
	Use negative numbers in context, and calculate intervals across zero						
	Solve number and practical problems that involve all of the above.						
Addition, Subtraction, Multiplication & Division	Multiply 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 whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for 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						
	Perform mental calculations, including with mixed operations and large numbers						
	Identify common factors, common multiples and prime numbers						
	Common factors can be related to finding equivalent fractions.						
	Use their knowledge of the order of operations to carry out calculations involving the four operations						
	Explore the order of operations using brackets; for example, 2 + 1 x 3 = 5 and (2 + 1) x 3 = 9.						
	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why						
	Solve problems involving addition, subtraction, multiplication and division						
	Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.						
Fractions (inc. decimals and percentages)	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination						
	Compare and order fractions, including fractions > 1						
	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions						
	Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, ¼ × ½ = 1/8]						
	Divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6]						
	Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]						
	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						

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	NUMBER	**Dates:**					
Fractions	Use written division methods in cases where the answer has up to two decimal places						
	Solve problems which require answers to be rounded to specified degrees of accuracy						
	Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.						
	RATIO & PROPORTION	**Dates:**					
	Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts						
	Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison						
	Solve problems involving similar shapes where the scale factor is known or can be found						
	Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.						
	Solve problems involving unequal quantities, for example, 'for every egg you need three spoonfuls of flour', ' 5 3 of the class are boys'.						
	ALGEBRA	**Dates:**					
	Use simple formulae						
	Generate and describe linear number sequences						
	Express missing number problems algebraically						
	Find pairs of numbers that satisfy an equation with two unknowns						
	Enumerate possibilities of combinations of two variables.						
	MEASUREMENT	**Dates:**					
	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places						
	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						
	Convert between miles and kilometres						
	Recognise that shapes with the same areas can have different perimeters and vice versa						
	Recognise when it is possible to use formulae for area and volume of shapes						
	Calculate the area of parallelograms and triangles						
	Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3].						

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	GEOMETRY	**Dates:**					
Properties of Shape	Draw 2-D shapes using given dimensions and angles						
	Recognise, describe and build simple 3-D shapes, including making nets						
	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons						
	Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius						
	This relationship might be expressed algebraically for example, $d = 2 \times r$						
	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.						
	This relationship might be expressed algebraically for example, $a = 180 - (b + c)$						
Position & Direction	Describe positions on the full coordinate grid (all four quadrants)						
	Draw and label a pair of axes in all four quadrants with equal scaling. This extends their knowledge of one quadrant to all four quadrants, including the use of negative numbers						
	Draw and translate simple shapes on the coordinate plane, and reflect them in the axes						
	Draw and label rectangles (including squares), parallelograms and rhombuses, specified by coordinates in the four quadrants, predicting missing coordinates using the properties of shapes						
	STATISTICS	**Dates:**					
	Interpret and construct pie charts and line graphs and use these to solve problems						
	Connect their work on angles, fractions and percentages to the interpretation of pie charts.						
	Calculate and interpret the mean as an average.						
	Know when it is appropriate to find the mean of a data set						