Year Maths 6 – Key Performance Indicators

	Evidence collection						
Meeting statements							
Number, Place Value, approximation estimation and rounding							
I can read, write, order and compare numbers up to 10,000,000 and determine the value of each digit							
I can round any number to a required degree of accuracy							
I can use negative numbers in context and calculate intervals across zero							
I can solve number problems and practical problems with the above							
Calculations							
I can use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy							
I can solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why							
I can identify common factors, common multiples and prime numbers							
I can perform mental calculations, including with mixed operations and large numbers							
I can multiply multi digit numbers up to 4 digits by a 2 digit whole number using the formal written method of long multiplication							
I can divide numbers up to 4 digits by a 2 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							
I can divide numbers up to 4 digits by a 2 digit number using the formal written method of short division where appropriate							
I can solve problems involving addition, subtraction, multiplication and division							
I can use my knowledge of the order of operations to carry out calculations involving the four operations							
Fractions, decimals and percentages							
I can use common factors to simplify fractions and use common multiples to express fractions in the same denomination							
I can compare and order fractions, including fractions >1							

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I can add and subtract fractions with different denominations and mixed numbers, using the concept of equivalent fractions							
I can multiply simple pairs of proper fractions, writing the answer in their simplest form							
I can divide proper fractions by whole numbers							
I can associate a fraction with division to calculate decimal fraction equivalents for a simple fraction							
I can identify the value of each digit to 3 decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to 3 decimal places.							
I can multiply 1 digit numbers with up to 2 decimal places by whole numbers							
I can use written division methods in cases where the answer has up to 2 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							
Ratio and Proportion							
I can solve problems involving the relative sizes of two quantities, where missing values can be found using integer multiplication and division facts							
I can solve problems involving the calculation of percentages and the use of percentage comparisons							
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							
Algebra							
I can express missing number problems algebraically							
I can use a simple formulae							
I can generate and describe linear number sequences							
I can find pairs of numbers that satisfy an equation with two unknowns							
I can enumerate possibilities of combinations of two variables							
Measurement							

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I can read, write and convert between standard units, converting measurement of length, mass, volume, and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation of up to 3 decimal places							
I can convert between miles and kilometres							
I recognise that shapes with the same areas can have different perimeters and vice versa							
I can calculate the area of parallelograms and triangles							
I recognise when it is possible to use formulae for the area of shapes							
I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate							
Geometry-properties of shapes							
I can compare and classify geometric shapes based on the properties and sizes							
I can describe simple 3d shapes							
I can draw 2D shapes given dimensions and angles							
I recognise and build simple 3D shapes, including making nets							
I can find unknown angles in any triangles, quadrilaterals, and regular polygons							
I recognise angles where they meet at a point, are on a straight line or are vertically opposite, and find missing angles							
I can illustrate and name parts of circles, including radius, diameter and circumference							
I know the dimeter is twice the radius							
Geometry-Position and Direction							
I can draw and translate simple shapes on the co-ordinate plane, and reflect them in the axes							
I can describe positions on the full co-ordinates grid (all 4 quadrants)							
Statistics							
I can interpret and construct pie charts and line graphs and use these to solve problems							
I can calculate and interpret the mean as an average							