Name: _____

Year 6 Maths Assessment Record

	Objective				Notes
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 and 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				
	use their knowledge of the order of operations to carry out calculations involving the four operations				
	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 (including 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				
	divide proper fractions by whole numbers				
	associate a fraction with division and calculate decimal fraction equivalents for a simple fraction				
	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				
	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 and Proportion	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 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				
Algebra	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	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate				
	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 and cubic metres, and extending to other units				
Properties of Shapes	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				
	recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles				
Pos & Dir	describe positions on the full coordinate grid (all four quadrants)				
	draw and translate simple shapes on the coordinate plane, and reflect them in the axes				
Statistics	interpret and construct pie charts and line graphs and use these to solve problems				
	calculate and interpret the mean as an average				