MATHEMATICS TARGETS (Full)				
A YEAR 6 MATHEMATICIAN				
GROUP RECORD				
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Number, place value, approximation and estimation/rounding			
I can count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.			
I can read, write, order and compare numbers to at least 1,000,000.			
I can determine the value of each digit in numbers up to 1,000,000.			
I can read Roman numerals to 1,000 (M) and recognise years written in Roman numerals.			
I can round any number up to 1,000,000 to the nearest 10, 100, 1000, 1000, 1000 and 100000.			
I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 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.			

MATHEMATICS TARGETS (Full)				
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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.					
I can add and subtract fractions with different denominators and mixed					
numbers, using the concept of equivalent fractions.					
I can multiply simple pairs of proper fractions, writing the answer in the					
simplest form.					
I can divide proper fractions by whole numbers.					
I can associate a fraction with division to calculate decimal fractions					
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				ĺ	
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	1	1	1	1
I can express missing number problems algebraically.					
<mark>l can use simple formulae.</mark>					
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.					

MATHEMATICS TARGETS (Full)				
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Measurement						
I can 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 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 the formulae for the area of						
shapes.						
I can calculate, estimate and compare volume of cubes and						
cuboids, using standard units.						
I recognise when it is possible to use the formulae for the volume						
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	1			1		
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 diameter is twice the radius.						
Geometry – position and direction	,		n		r	
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-ordinate grid (all four						
quadrants).						
Statistics	1 1		1	1		
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.						

## **MATHEMATICS TARGETS**

## **EXCEEDING YEAR 6 EXPECTATIONS**

## **GROUP RECORD**