MATHEMATICS TARGETS (Full)				
A YEAR 5 MATHEMATICIAN				
GROUP RECORD				
Page 1				

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 a digit up to two decimal places.			
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, 10000 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 add and subtract numbers mentally with increasingly large			
numbers.			
I can change the order of a calculation to support my mental			
strategies.			
I can add and subtract whole numbers with more than 4 digits,			
Including using formal written methods.			
in the context of a problem levels of accuracy			
I can solve addition and subtraction multi-step problems in contexts			
deciding which operations and methods to use and why			
L can identify multiples and factors, including finding all factor pairs			
or a number and common factor pairs of two numbers.			
I use the vocabulary of prime numbers, prime factors and composite			
(non-prime) numbers.			
I can establish whether a number up to 100 is prime and recall prime			
numbers up to 19.			
I recognise and use square numbers and cube numbers, and the			
notation for squared and cubed.			
I can multiply and divide numbers mentally drawing on known facts.			
I can multiply and divide whole numbers and those involving			
decimals by 10, 100 and 1000.			
I can multiply numbers up to 4 digits by a 1-digit or 2-digit number			
using a formal written method, including long multiplication for 2-			
digit numbers.			
I can divide numbers up to 4 digits by a 1-digit number using the			
appropriately for the context			
appropriately for the context.			
using knowledge of factors and multiples squares and cubes			
L can solve problems involving addition, subtraction, multiplication			
and division and a combination of these, including understanding the			
meaning of the equals sign.			
I can solve problems involving multiplication and division including			
scaling by simple fractions and problems involving simple rates.			

MATHEMATICS TARGETS (Full)				
A YEAR 5 MATHEMATICIAN				
GROUP RECORD				
Page 2				

Fractions, decimals and percentages				
I can recognise mixed numbers and improper fractions and				
convert from one form to the other.	ĺ			
I can write mathematical statements >1 as a mixed number.				
I can identify, name and write equivalent fractions of a given				
fraction, represented visually, including tenths and hundredths.	Í			
I can compare and order fractions whose denominators are	ĺ			
multiples of the same number.				
I can add and subtract fractions with the same denominator and	ĺ			
denominators that are multiples of the same number.			 	
I can multiply proper fractions and mixed numbers by whole	ĺ			
numbers, supported by materials and diagrams.	ļ			
I can read and write decimal numbers as fractions.				
I know that a half is 0.5 and 50%, a quarter is 0.25 and 25%, a	ĺ			
tenth is 0.1 and 10%, ¾ is 0.75 and 75%.			 	
I recognise and can use thousandths and relate them to tenths,	ĺ			
hundredths and decimal equivalents.	ļ			
I can round decimals with 2 decimal places to the nearest whole	Í			
number and 1 decimal place.			 	
I can read, write, order and compare numbers with up to 3	ĺ			
decimal places.				
I can solve problems involving numbers up to 3 decimal places.	ļ			
I recognise the percent symbol and understand that percent	ĺ			
relates to 'number parts per hundred'.	ļ		 	
I can write percentages as a fraction with denominator hundred,	ĺ			
and as a decimal.				
I can find fractions, decimals and percentages of amounts.	ļ			
I can solve problems which require knowing percentage and	ĺ			
decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, 1/5, 2/5, 4/5 and those fractions	ĺ			
with a denominator or a multiple of 10 or 25.	<u> </u>			
Measurement	,			
I can solve problems involving converting between units of time.			 	
I can convert between different units of metric measure.				
I understand and use approximate equivalences between metric	Í			
units and common imperial units, such as inches, pounds and	ĺ			
pints.			 	
I can measure and calculate the perimeter of composite	Í			
rectilinear shapes in cm and m.				
I can calculate and compare the area of rectangles (incl. squares),				
and including using standard units (cm [*] and cm [*]) to estimate the				
area of irregular shapes.			 	
I can estimate volume and capacity.			 	
I can use all four operations to solve problems involving money				
using decimal notation, including scaling.	i i			

A YEAR 5 MATHEMATICIAN

GROUP RECORD Page 3				
Geometry – properties of shapes				
I can use the properties of rectangles to deduce related facts and find missing lengths and angles and can express this in algebraic				

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<mark>forms. EG: A=LxW</mark>				
I can distinguish between regular and irregular polygons based on				
reasoning about equal sides and angles.				
I can identify 3D shapes, including cubes and other cuboids, from				
2D representations.				
I know angles are measured in degrees.				
I can estimate and compare acute, obtuse and reflex angles.				
I can identify angles at a point and one whole turn.				
I can identify angles at a point on a straight line and ½ a turn.				
I can identify other multiples of 90º.				
I can draw given angles and measure them in degrees.				
I can use a protractor accurately				
Geometry – position and direction				
I can identify, describe and represent the position of a shape				
following a reflection or translation, using the appropriate				
language, and know that the shape has not changed.				
Statistics				
I can complete, read and interpret information in tables, including				
timetables.				
I can solve comparison, sum and difference problems using				
information presented in a line graph.				

MATHEMATICS TARGETS EXCEEDING YEAR 5 EXPECTATIONS GROUP RECORD I have a concept of numbers well beyond 1,000,000 and their relative association to distances to planets; historical data and geographical aspects. I can divide whole numbers (up to 4 digits) by 2-digit numbers, using my preferred method. I can use rounding as a strategy for quickly assessing what approximate answers ought to be before calculating. I can link working across zero for positive and negative numbers, for example, to work out time intervals between BC and AD in history I can calculate number supposition to create plans of areas around school, such as the classroom , field, outside play area, etc. I can use my knowledge of measurement to create plans of areas around school, such as the classroom , field, outside play area, etc. I can relate the imperial measures still used regularly in our society to their metric equivalents, for example, their metric equivalents, for example, miles to Km and lbs to Kg. I can use a range of timetables to work out journey times on a fictional journey around the work, for example, "How long would it take to reach the rainforests in the Amazon?"					
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information in formats of my choosing using charts, graphs	information in formats of my choosing using charts graphs				
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