Year 4 Primary Curriculum Programme of Study for Mathematics (Draft)

NUMBER: Pupils should be taught to

Number, place value and rounding					
read and write numbers to at least 10,000		recognise the	recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens, and ones)		
		multiples of 2, 3, 4, 5, 6, 7, 8, 9, 10, 25, 50, 100 and 1000 from ven number, and 10 or 100 more or less than a given number			
round any number to the nearest 10 or 100	read and write negative numbers; order, count forwards and backwards with positive and negative whole numbers through zero				
read Roman numerals to 100 and understand he Arabic numerals included the concept of zero at			solve word problems that involve negative and increasingly large positive numbers		
Addition and subtraction					
add and subtract numbers using formal a written methods with up to 4 digits		accurately add and subtract numbers mentally including two 2-digit numbers			
estimate, within a range, the answer to a calculation and use inverse operations to check answers					
Multiplication and division					
•	recall multiplication and division facts mentally perform multiplication and division calculations quickly for multiplication tables up to 12 x 12 and accurately, including multiplying by 0 and dividing by 1				
multiply or divide 2-digit and 3-d formal written methods; interpre			recognise and use factor pairs within 144		
solve word problems involving the four operations					
Fractions					
identify and name equivalent fractions of a give denominator not greater than 12		ven fraction with	write the equivalent fraction of a fraction given the denominator or the numerator		
reduce fractions to their simplest form		a	add and subtract two fractions with common denominators within one whole		
Decimals					
compare numbers with the same			find the effect of dividing a 2-digit number by 10 and 100,		
number of decimal places up to a decimal places	s up to 2 identifying the value of the digits in the answer as units, tenths and hundredths				
recognise and write decimal equivalents to 1/4, 1/2, 3/4 and any number of tenths and hundredths					

GEOMETRY AND MEASURES: Pupils should be taught to

Properties of shapes					
identify lines of symmetry in 2-D shapes presented in different orientations	compare and classify geometric shapes, including squares, rectangles and triangles based on their properties and sizes				
identify acute and obtuse angles and compare the size of different angles					
Position, direction, motion					
describe positions, and movements between positions, a 2-D grid, and as coordinates in the first quadrant	on plot specified points and draw sides to complete a given polygon				
recognise a symmetric figure and complete a symmetric figure with respect to a specific line of symmetry					
Measures					
convert between different units of measure, for example kilometre to metre; metre to centimetre; centimetre to millimetre; kilogram to gram; litre to millilitre; hour to minute; minute to second; year to month; week to day	measure and calculate the perimeter of a rectilinear figure, where each side is labelled in centimetres and metres				
find the area of squares and rectangles and related composite shapes	and convert time between analogue and digital 12- and 24- hour clocks				
estimate, compare and calculate different measures, including money in pounds and pence					
Data					
read, interpret and solve problems using information in bar graphs, including reading scales on the axes					