## Year 6 Primary Curriculum Programme of Study for Mathematics (Draft)

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NUMBER: Pupils should be taught to	IUMBER: Pupils should be taught to			
	Number, place value	and rounding		
read, write, order and compare numbers i	up to 10	round	any number to a required degree of accuracy	
million and determine the value of each d	igit	Touria		
recognise binary numerals to 15 (1111) and convert between binary and decimal numerals				
Addition, subtraction, multiplication and division				
add and subtract negative integers multiply numbers with at least 4-digits by a 2-digit whole number using long multiplication				
divide numbers up to 4-digits by a 2-digit whole number using long division, and interpret remainders as whole number remainders, fractions, decimals or by rounding				
use estimation to check answers to calculations and determine, in the context of a problem, whether an answer should be rounded or written as a fraction or a decimal operations accurately and state the order of operations accurately and state the operations operations accurately and state the operations operations accurately and state the order of operations accurately and state the operations operations accurately accurately and state the operations operations accurately acc				
solve word problems involving addition, subtraction, multiplication and division				
Fractions				
add and subtract mixed numbers and frac	ctions with	multiply simple u	unit fractions by fractions and pairs of proper	
different denominators		frac	ctions, writing the answer in its simplest form	
	associate a f	raction with divis	sion to calculate decimal fraction equivalents	
divide proper fractions by whole numbers	S		(e.g. 0.375) for a simple fraction (e.g. 3/8)	
	Decima	S	(0. <b>3</b> )	
identify the value of each digit to three de	cimal places and multiply	multipl	ly and divide numbers with up to two decimal	
and divide numbers up to three decimal p	blace by 10, 100 and 1000		places by 1-digit and 2-digit whole numbers	
	Percenta	ae		
use percentages for comparison and calc	ulate percentages of who	e numbers or	recall and use equivalences between	
measures such as 15% of 360	diate percentages of who		fractions decimals and percentages	
	Ratio and pro	nortion		
use ratios to show the relative sizes of tw	o quantities recognise	equivalent ratio	s and reduce a given ratio to its lowest terms	
recognise and use division in the context	of fractions percentages	and ratio		
recognise and use division in the context	or mactions, percentages			
	Algebra	3	F F F	
solve linear missing number problems, including those involving decimals and fractions, and find use simple formulae pairs of numbers that satisfy number sentences involving two unknowns expressed in words				
generate and describe linear number sequences, including those involving negative and decimal numbers, and proper fractions e.g. 1.4, 1.1, 0.8				
GEOMETRY AND MEASURES: Pupils should be	e taught to			
	Properties of	shapes		
compare and classify geometric shapes b	based on their properties a	ind sizes and i	illustrate and name parts of circles, including	
find unknown angles in any triangles, qua	adrilaterals, and regular po	olygons	radius, diameter and circumference	
recognise, describe and build simple 3-D	describe propertie	s of cuboids and	other common 3-D shapes including prisms	
shapes, including making nets			and identify parallel planes and symmetries	
actimate the size of angles	find unknown angles involving angles at a point, on a straight line, in a triangle (180°),			
estimate the size of angles		in a quad	rilateral (360°) and vertically opposite angles	
	Position, direction	on, motion		
describe positions on the full coordinate (all four quadrants)	describe positions on the full coordinate grid (all four guadrants) construct, translate and reflect simple shapes on the coordinate plane			
	Measure	s		
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 including between miles and kilometres				
calculate the area of parallelograms and t	calculate the area of parallelograms and triangles recognise when it is necessary to use the		recognise when it is necessary to use the	
calculate, estimate and compare volume	calculate, estimate and compare volume of cubes and cuboids using use decimal notation to three decimal places to such as the set of		mal notation to three decimal places to solve	
standard units, including centimetre cube	standard units, including centimetre cubed (cm <sup>3</sup> ) and cubic metres (m <sup>3</sup> ) problems involving calculation and conversion of			
and extending to other units, such as mm	<sup>3</sup> and km <sup>3</sup>		measures	
	Data			
draw, read and interpret line graphs and	use and interpret a	averages includi	ng mean, median and mode and solve simple	
use these to solve problems			problems using different kinds of averages	
Probability				
use the language associated with probability such as certain, equally likely, unlikely, impossible and use this to describe the likelihood of particular events				
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