## NATIONAL CURRICULUM STATUTORY REQUIREMENTS - MATHEMATICS

	NUMBER – Number and place value									
	Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit					Use negative numbers in context, and calculate intervals across zero		•	Solve number and practical problems that involve all of the above.	
	NUMBER – 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-dig number using the formal written method short division where appropriate, interpreting remainders according to the context				
	NUMBER – Addition, subtraction, multiplication and division									
VC	multiples and prime numbers of operation		ir knowledge of the order ations to carry out ions involving the four		Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why		Solve problems involving ac subtraction, multiplication a division		-	Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy
Y6	NUMBER – Fractions (including decimals and percentages)									degree of decardey
					e and order fractions, including fraction				ract fractions with different denominators and rs, using the concept of equivalent fractions	
	NUMBER – Fractions (including decimals and percentages)									
	Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ ]		Divide proper fractions by whole numbers [for example, $\frac{1}{3} \div 2 = \frac{1}{6}$ ]			Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$ ]			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	
	NUMBER – Fractions (including decimals and percentages)									
	Multiply one-digit numbers with up to two lecimal 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 [for example, of measures, and such as 15% of 360] 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.	

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	ALGEBRA										
	Use simple formulae		te and describe sequences	linear	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		Use, read, wri	te and conve	rt between Convert betweer				Recognise that shapes with the same areas can have different perimeters and vice		
	and conversion of units of measure, using				measurements of						
	decimal notation up to three decimal places		length, mass,						versa		
	where appropriate		smaller unit of measure to a larger unit, and								
				_	otation to up to	o up to					
			three decimal places								
	MEASUREMENT										
	-				ulate the area of parallelograms and triangles			Calculate, estimate and compare volume of cubes and			
<b>Y6</b>	volume of shapes								units, including cubic centimetres		
								(cm <sup>3</sup> ) and cubic metres (m <sup>3</sup> ), and extending to other to [for example, mm <sup>3</sup> and km <sup>3</sup> ].		· · · ·	
	GEOMETRY – PROPERTIES OF SHAPES										
	Draw 2-D shapes using given	Recogni	se, describe and	d build	Compare and classify geometric		Illustrate and name parts		F	Recognise angles where they meet	
	dimensions and angles	simple 3-D shapes, i		uding	shapes based on their properties		circles, including radius, d		iameter at a	at a point, are on a straight line, or	
		making	making nets					ference and know that		are vertically opposite, and find	
					in any triangles, quadrilaterals,			the diameter is twice the radius		missing angles.	
					and regular polygons						
	GEOMETRY – POSITION OF SHAPES										
	Describe positions on the full coordinate grid (all four quadrants)				Draw and translate simple sh			apes on the coord	dinate pl	ane, and reflect them in the axes.	
	STATISTICS										
	Interpret and construct pie chart	nterpret and construct pie charts and line graphs and use these to solve problems						Calculate and interpret the mean as an average.			