

COUNTING IN FRACTIONAL STEPS							
Year 1 - KPI	Year 2 - KPI	Year 3	Year 4	Year 5	Year 6		
	Pupils should count in fractions up to 10, starting from any number and using the 1/2 and 2/4 equivalence on the number line (Non Statutory Guidance)	count up and down in tenths	count up and down in hundredths				
		RECOGNISIN	G FRACTIONS				
recognise, find and name a half as one of two equal parts of an object, shape or quantity  recognise, find and name a quarter as one of four	recognise, find, name and write fractions $\frac{1}{3}$ , $\frac{1}{4}$ , $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity	recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators  recognise that tenths arise from dividing an object into 10 equal parts and in dividing one — digit numbers or quantities by 10.  recognise and use fractions as numbers: unit	recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (appears also in Equivalence)			
a quarter as one of four equal parts of an object, shape or quantity		fractions and non-unit fractions with small					
		denominators	FRACTIONS				
		compare and order unit fractions, and fractions with the same denominators	FRACTIONS	compare and order fractions whose denominators are all multiples of the same number	compare and order fractions, including fractions >1		



COMPARING DECIMALS							
Year 1 - KPI	Year 2 - KPI	Year 3	Year 4	Year 5	Year 6		
			compare numbers with the same number of decimal places up to two decimal	read, write, order and compare numbers with up to three decimal places	identify the value of each digit in numbers given to three decimal places		
			places  ROUNDING INCLUDING DE	CIDAALC			
			round decimals with one	round decimals with two decimal places	solve problems which require		
			decimal place to the nearest whole number	to the nearest whole number and to one decimal place	answers to be rounded to specified degrees of accuracy		
		EQUIVALENCE	(INCLUDING FRACTIONS, DECIN	MALS AND PERCENTAGES)			
	write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ .	recognise and show, using diagrams, equivalent fractions with small denominators	recognise and show, using diagrams, families of common equivalent fractions	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths  read and write decimal numbers as	use common factors to simplify fractions; use common multiples to express fractions in the same denomination  associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. <sup>3</sup> / <sub>8</sub> )		
			equivalents of any number of tenths or hundredths	fractions (e.g. $0.71 = \frac{71}{100}$ )  recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents			
			recognise and write decimal equivalents to $\frac{1}{4}$ ; $\frac{1}{2}$ ; $\frac{3}{4}$	recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction with denominator 100 as a decimal fraction	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.		



ADDITION AND SUBTRACTION OF FRACTIONS						
Year 1 - KPI	Year 2 - KPI	Year 3	Year 4	Year 5	Year 6	
		add and subtract fractions with the same denominator within one whole (e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$ )	add and subtract fractions with the same denominator	add and subtract fractions with the same denominator and multiples of the same number recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = \frac{1}{5}$ )	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	
		MULTIPLICATION AND I	DIVISION OF FRACTIONS	- ' <sub>5</sub> '		
				multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ ) multiply one-digit numbers with up to two decimal places by whole numbers divide proper fractions by whole numbers (e.g. $\frac{1}{4} \div \frac{1}{8} \div 1$	
					2 = 1/6)	



MULTIPLICATION AND DIVISION OF DECIMALS						
Year 1 - KPI	Year 2 - KPI	Year 3	Year 4	Year 5	Year 6	
					multiply one-digit	
					numbers with up to two	
					decimal places by whole	
					numbers	
			find the effect of dividing		multiply and divide	
			a one- or two-digit		numbers by 10, 100 and	
			number by 10 and 100,		1000 where the answers	
			identifying the value of the digits in the answer as		are up to three decimal	
			ones, tenths and		places	
			hundredths			
			Hallareatiis		identify the value of each	
					digit to three decimal	
					places and multiply and	
					divide numbers by 10, 100	
					and 1000 where the	
					answers are up to three	
					decimal places	
					associate a fraction with	
					division and calculate	
					decimal fraction	
					equivalents (e.g. 0.375)	
					for a simple fraction	
					(e.g. <sup>3</sup> / <sub>8</sub> )	
					use written division methods in cases where	
					the answer has up to two	
					decimal places	
					accillial places	



PROBLEM SOLVING						
Year 1 - KPI	Year 2 - KPI	Year 3	Year 4	Year 5	Year 6	
		solve problems that involve all of the above	solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number	solve problems involving numbers up to three decimal places		
			solve simple measure and money problems involving fractions and decimals to two decimal places.	solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{5}$ , $\frac{2}{5}$ , $\frac{4}{5}$ and those with a denominator of a multiple of 10 or 25.		