



COUNTING IN FRACTIONAL STEPS										
Nursery	Reception	Year 1	Year 2	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					
			RECO	<b>GNISING FRACTIONS</b>						
		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 equal parts of an object, shape or quantity	recognise, find, name and write fractions  1/3, 1/4, 2/4 and 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 fractions and non-unit fractions with small denominators	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)				
	COMPARING FRACTIONS									
				compare and order unit fractions, and fractions with the same denominators		compare and order fractions whose denominators are all multiples of the same number	compare and order fractions, including fractions >1			





COMPARING DECIMALS										
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
					compare numbers with the same number of decimal places up to two decimal places	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			
ROUNDING INCLUDING DECIMALS										
					round decimals with one decimal place to the nearest whole number	round decimals with two decimal places to the nearest whole number and to one decimal place	solve problems which require answers to be rounded to specified degrees of accuracy			
		EQUIVALENCE	(INCLUDING FRACTIO	ONS, DECIMALS AND I	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	use common factors to simplify fractions; use common multiples to express fractions in the same denomination			
					recognise and write decimal equivalents of any number of tenths or hundredths	read and write decimal numbers as fractions (e.g. $0.71 = \frac{71}{100}$ )	associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple			
						recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	fraction (e.g. <sup>3</sup> / <sub>8</sub> )			
					recognise and write decimal equivalents to $\frac{1}{4}$ ; $\frac{1}{4}$ ; $\frac{3}{4}$	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.			





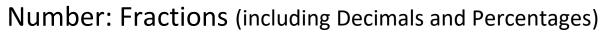
ADDITION AND SUBTRACTION OF FRACTIONS								
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
				add and subtract fractions with the same denominator within one whole (e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$ )	add and subtract fractions with the same denominator	add and subtract 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	
		M	ULTIPLICATION AND I	DIVISION OF FRACTIO	NS			
						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. $\frac{1}{3} \div 2 = \frac{1}{6}$ )	





MULTIPLICATION AND DIVISION OF DECIMALS								
Nursery	Reception	Year 1	Year 2	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		multiply and divide	
					dividing a one- or two-		numbers by 10, 100	
					digit number by 10 and		and 1000 where the	
					100, identifying the		answers are up to	
					value of the digits in		three decimal places	
					the answer as ones,			
					tenths and hundredths			
							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 simpl fraction	
							(e.g. <sup>3</sup> / <sub>8</sub> )	
							use written division	
							methods in cases	
							where the answer has	
							up to two decimal	
							places	
							places	







PROBLEM SOLVING								
Nursery	Reception	Year 1	Year 2	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 \(^1/_2\), \(^1/_4\), \(^1/_5\), \(^1/_5\), \(^4/_5\) and those with a denominator of a multiple of 10 or		