

COUNTING IN FRACTIONAL STEPS							
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				
			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 equal parts of an object,	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 fractions and non-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)			
shape or quantity		fractions with small					
denominators  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							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
			compare numbers with the	read, write, order and compare	identify the value of each digit		
			same number of decimal	numbers with up to three decimal	in numbers given to three		
			places up to two decimal	places	decimal places		
			places				
			ROUNDING INCLUDING DE	CIMALS			
			round decimals with one	round decimals with two decimal places	solve problems which require		
			decimal place to the nearest	to the nearest whole number and to	answers to be rounded to		
			whole number	one decimal place	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	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. $0.71 = \frac{71}{100}$ )  recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$ )		
			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	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.		



			denominator 100	as a decimal fraction		
ADDITION AND SUBTRACTION OF FRACTIONS						
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	
		MULTIPLICATION AND I	DIVISION OF FRACTIONS			
				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. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ )	
				and diagrams	multiply one-digit numbers with up to two decimal places by whole numbers	
					divide proper fractions by whole numbers (e.g. $\frac{1}{3}$ ÷ $2 = \frac{1}{6}$ )	



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		MULTIPLICATION AN	D DIVISION OF DECIMALS		
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 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		are up to three decimal
			the digits in the answer as		places
			ones, tenths and		places
			hundredths		
			Hundreaths		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



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					methods in cases where the answer has up to two decimal places
		PROBLE	M SOLVING		
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 $\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{5}$ , $\frac{2}{5}$ , $\frac{4}{5}$ and those with a denominator of a multiple of 10 or 25.	