

COUNTING IN FRACTIONAL STEPS								
EYFS (40-60+ months)	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				
			RECOGNISIN	G FRACTIONS				
	recognise, find and name a half as one of two equal parts of an object, shape or quantity	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	recognise, find and write fractions of a discrete set of objects: 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			
		objects or quantity	recognise that tenths arise from dividing an object into 10 equal parts and in dividing one – digit numbers or quantities by 10.		Equivalence)			
	recognise, find and name a quarter as one		recognise and use fractions as numbers:					
	of four equal parts of an object, shape or quantity		unit fractions and non- unit 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					
EYFS (40-60+ months)	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 INC	LUDING DECIMALS		1 1
		FOLINA	ENCE (INCLUDING EDACE	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
		write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{1}{2}$ 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 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					
EYFS (40-60+ months)	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	add and subtract fractions with different denominators and mixed numbers, using
					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. $^2/_5$ + $^4/_5$ = $^6/_5$ = $1^1/_5$)	the concept of equivalent fractions
		MULTIP	LICATION AND DIVISION (OF FRACTIONS	5 5 5	
					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						
EYFS (40-60+ months)	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	
				identifying the value of		answers are up to three	
				the digits in the answer		decimal places	
				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 simple	
						fraction	
						(e.g. ³ / ₈)	
						use written division	
						methods in cases where	
						the answer has up to	
						two decimal places	



PROBLEM SOLVING						
EYFS (40-60+ months)	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.	