

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	recognise, find, name and	Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts recognise, find and write	recognise that hundredths	recognise and use			
a half as one of two equal parts of an object, shape or quantity	write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity	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	arise when dividing an object by one hundred and dividing tenths by ten	thousandths and relate them to tenths, hundredths and decimal equivalents (appears also in Equivalence)			
recognise, find and name a quarter as one of four equal parts of an object, shape or quantity		recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators					











	Reason about the location of any fraction within 1 in the linear number system. COMPARING compare and order unit fractions, and fractions with the same denominators	Reason about the location of mixed numbers in the linear number system. FRACTIONS	compare and order fractions whose denominators are all multiples of the same number	Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denomination as a comparison strategy.			
				Express fractions in a common denomination and use this to compare fractions that are similar in value. compare and order fractions, including fractions >1			
FRACTIONS AS OPERATORS							
	Find unit fractions of quantities using known division facts (multiplication tables fluency).		Find non-unit fractions of quantities.				











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 DEC	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)			
			convert mixed numbers to improper fractions and vice versa				
	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	find equivalent fractions and understand that they have the same value and the same position in the linear number system 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 when fractions can be simplified, and use common factors to simplify fractions.		
			recognise and write decimal equivalents of any number of tenths or hundredths	read and write decimal numbers as fractions (e.g. $0.71 = \frac{71}{100}$) Recall decimal fraction equivalents for $1/2$, $1/4$, $1/5$ and $1/10$, and for multiples of these proper fractions.	associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $^3/_8$)		











			recognise and write equivalents to $^{1}/_{4}$; $^{1}/_{4}$	' ₂ ; ³ / ₄	relate them to te decimal equivaled recognise the per understand that p "number of parts write percentage denominator 100	cent symbol (%) and per cent relates to per hundred", and	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.	
			ADDITION AND SUBTR	ACTION O	FRACTIONS			
Year 1	Yea		Year 3		Year 4	Year 5	Year 6	
		with t denoi whole	and subtract fractions the same minator within one e (e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$)	with the s denomina bridging v	ator, including whole numbers.	add and subtract fraction with the same denominator and multiples of the same number recognise mixed number and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5}$ and $\frac{1}{5}$)	with different denominators and mixed numbers, using the concept of equivalent fractions ed	
MULTIPLICATION AND DIVISION OF FRACTIONS								
						multiply proper fraction and mixed numbers by whole numbers, supported by materials	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. $\frac{1}{3}$ ÷ $2 = \frac{1}{6}$)
			DIVISION OF DECIMALS		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths		multiply one-digit numbers with up to two decimal places by whole numbers multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places
					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	I 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.	







