

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 the1/2 and 2/4 equivalence on the number line	count up and down in tenths	count up and down in hundredths			
		<b>RECOGNISING</b> and	WRITE 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, shape or quantity	recognise, find, name and write fractions <sup>1</sup> / <sub>3</sub> , 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 recognise mixed numbers and improper fractions		



COMPARING FRACTIONS						
	compare and order unit fractions, and	compare and order fractions whose denominators are all	compare and order fractions, including fractions >1			
	fractions with the same denominators	multiples of the same number				



	COMPARING DECIMALS						
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 DECIM	ALS			
			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 (IN	ICLUDING FRACTIONS, DECIMAI	LS AND PERCENTAGES)			
	write simple fractions e.g. $1/2$ of 6 = 3 and recognise the equivalence of $2/4$ and $1/2$ .	recognise and show, using diagrams, equivalent fractions with small denominators e.g. 2/4 and 1/2	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 convert from improper fractions to mixed numbers and from mixed numbers to improper fractions	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		
				recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	a simple fraction (e.g. <sup>3</sup> / <sub>8</sub> )		



			recognise and w equivalents to 1/2		symbol (% that per c	the per cent ) and understand ent relates to	recall and use equivalences between simple fractions, decimals
					hundred", percentag	of parts per , and write ges as a fraction minator 100 as a raction	and percentages, including in different contexts.
		AD	DITION AND SUBTRA	ACTION OF FR	ACTIONS		
Year 1	Ye ır	r 2	Year 3	Yea	r 4	Year 5	Year 6
		frac den one	and subtract tions with the same ominator within whole (e.g. 1/7 = 6/7)	add and sul fractions wit same denor	h the	add and subtract fractions with the so denominator and multiples of the sam number recognise mixed numbers and improper fractions of convert from one for to the other and with mathematical statements > 1 as a mixed number (e.g. 2/5 + 4/5 = 6/5 = 11/5)	denominators and mixed numbers, using the concept of equivalent fractions



	MULTIPLICATION AND 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. $1/4 \times 1/2 = 1/8$ ) multiply one-digit numbers with up to two decimal places by whole numbers

		divide proper fractions by whole numbers (e.g. $1/3 \div 2 =$ 1/6)



	MULTIPLICATION AND 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 use written division methods in cases where the answer has up to two 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> )		



PROBLEM 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 simple measure and money problems involving fractions and decimals to two decimal places.	solve problems involving numbers up to three decimal places solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those with a denominator of a multiple of 10 or 25.			