



At Churchwood Everyone Can

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			
	· · · · · · · · · · · · · · · · · · ·	RECOGNISIN	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, 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 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								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
			compare numbers with the	read, write, order and compare numbers	identify the value of each digit in			
			same number of decimal places	with up to three decimal places	numbers given to three decimal			
			up to two decimal places		places			
	ROUNDING INCLUDING DECIMALS							
			round decimals with one	round decimals with two decimal places to	solve problems which require			
			decimal place to the nearest	the nearest whole number and to one	answers to be rounded to			
			whole number	decimal place	specified degrees of accuracy			
			INCLUDING FRACTIONS, DECI	-				
	write simple fractions e.g.	recognise and show,	recognise and show, using	identify, name and write equivalent	use common factors to simplify			
	$\frac{1}{2}$ of 6 = 3 and recognise	using diagrams,	diagrams, families of common	fractions of a given fraction, represented	fractions; use common multiples			
		equivalent fractions	equivalent fractions	visually, including tenths and hundredths	to express fractions in the same			
	the equivalence of $^2/_4$ and	with small			denomination			
	1/ <sub>2</sub> .	denominators						
	2		recognise and write decimal	read and write decimal numbers as	associate a fraction with division			
			equivalents of any number of		and calculate decimal fraction			
			tenths or hundredths	fractions (e.g. 0.71 = <sup>71</sup> / <sub>100</sub> )	equivalents (e.g. 0.375) for a			
					simple fraction (e.g. <sup>3</sup> / <sub>2</sub> )			
				recognise and use thousandths and relate	, , , , , , , , , , , , , , , , , , ,			
				them to tenths, hundredths and decimal				
				equivalents				
			recognise and write decimal	recognise the per cent symbol (%) and	recall and use equivalences			
			equivalents to $\frac{1}{4}$ ; $\frac{1}{2}$ ; $\frac{3}{4}$	understand that per cent relates to	between simple fractions,			
			equivalents to 7 <sub>4</sub> , 7 <sub>2</sub> , 7 <sub>4</sub>	"number of parts per hundred", and write	decimals and percentages,			
				percentages as a fraction with	including in different contexts.			
				denominator 100 as a decimal fraction				





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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	
		ANUI TTDI TCATTONI AND D	I DIVISION OF FRACTIONS			
		MOLITELICATION AND D	TATOM OF LEACTIONS	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. $\frac{1}{3} \div 2 = \frac{1}{6}$ )	





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MULTIPLICATION AND 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 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 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. <sup>3</sup> / <sub>8</sub> )	
					use written division methods in cases where the answer has up to two decimal places	
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	solve problems involving numbers up to three decimal places		



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# **Maths Progression**



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 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.	