



Queen's Park C.E/U.R.C Primary School: Maths Progression Map

Fractions, Decimals and Percentages

		Count	ing in Fractional	Steps		
EYFS	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		
			cognising Fractio	ns.		
explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.	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 \(\big _3 \ _4 \text{of a length,} \] and \(\big _4 \text{of a length,} \] shape, set of objects or quantity	recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit 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 with	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)	

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Ca	omparing Fraction	<u> </u> K&		
	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, includin fractions >1
Ca	omparing Decima	js		
	ling including De	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
NAME OF THE PROPERTY OF THE PR		round decimals with	round decimals with	solve problems
		one decimal place to the nearest whole number	two decimal places to the nearest whole number and to one decimal place	which require answers to be rounded to specified degrees a accuracy
	Equivalence			8
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	recognise and show, using diagrams, families of common equivalent fractions recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to 1/4; 1/2; 3/4	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths read and write decimal numbers as fractions (e.g. 0.71 = 71/100) recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	use common factors to simplify fractions; use common multiples to express fractions in the same denomination associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8)

					recall and use
				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	equivalences between simple fractions, decimals and percentages, including in different contexts.
	Addition a	 nd Subtraction o	l Fractions	a decimal fraction	
			add and subtract	add and subtract	add and subtract
		add and subtract fractions with the same denominator within one whole (eg. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$)	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. 2/5 + 4/5 = 6/5 = 11/5)	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
	Multiplicatio	on 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 farm (e.g. 1/4 × 1/2 = 1/8) divide proper fractions by whole numbers (e.g. 1/3 ÷

Multiplicatio	n and Division of			
iviauquicatio	fir di tw 10 id of ar	nd the effect of ividing a one- or vo-digit number by and 100, lentifying the value of the digits in the nswer as ones,	Revisit: 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 and multiply and divide numbers by 10, 100 and 1000 where the answers are up 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)
				division methods in cases where the

				answer has up t two decimal place			
Problem Solving							
	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 \(\frac{1}{2}, \) \(\frac{1}{4}, \frac{1}{5}, \frac{2}{5}, \frac{4}{5} \) and those with a denominator of a multiple of 10 or 25.				