Preston CofE Primary School

Maths Progression of Skills – fractions inc. decimals and percentages

	EYFS	KS1		KS2			
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Counting in fractional steps							
			Pupils should count in fractions up to 10, starting from any number and using the1/2 and 2/4 equivalence on the number line (Non Statutory Guidance)	Count up and down in tenths.	Count up and down in hundredths.		
Recognising 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 1/3, 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	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.	

		Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.		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.			
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							
					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 decimals							

					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 including: fractions, decimals 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.	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; ¾.	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	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).

						and decimal equivalents. 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							
				Add and subtract fractions with the same denominator within one whole (e.g. 5/7 + 1/7 = 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	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.

						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).	
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 × 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 ÷ 2 = 1/6).