Danson Primary School Maths Skills Progression: Fractions

Fractions KS1			
	EYFS	Year 1	Year 2
COUNTING IN FRACTIONAL STEPS			I can *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)*
Recognising fractions	I can solve problems, including doubling, halving and sharing I can explore the relationship between doubling and halving	I can recognise, find and name a half as one of two equal parts of an object, shape or quantity I can recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	I can recognise, find, name and write fractions $^1/_3$, $^1/_4$, $^2/_4$ and $^3/_4$ of a length, shape, set of objects or quantity
Comparing fractions		I can compare what a half and a quarter looks like in different shapes.	I can compare and order unit fractions, and fractions with the same denominators
Equivalence			I can write simple fractions e.g. $^1/_2$ of 6 = 3 and recognise the equivalence of $^2/_4$ and $^1/_2$.

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Fractions KS2				
	Year 3	Year 4	Year 5	Year 6
Counting in fractional steps	I can count up and down in tenths	I can count up and down in hundredths		
Recognising fractions	I can recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators I can recognise that tenths arise from dividing an object into 10 equal parts and in dividing one – digit numbers or quantities by 10. I can recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators	I can recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten I can recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten	I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (appears also in Equivalence)	
Comparing fractions	I can compare and order unit fractions, and fractions with the same denominators		I can compare and order fractions whose denominators are all multiples of the same number	I can compare and order fractions, including fractions >1
Rounding including decimals	I can Round to the nearest 10 and 100	I can Round to the nearest 1, 100 and 1000 I can round decimals with one decimal place to the nearest whole number	I can round to the nearest 1000 I can round within 100,000 I can round decimals with two decimal places to the nearest whole number and to one decimal place	I can Solve problems which require answers to be rounded to specified degrees of accuracy
Equivalence	I can recognise and show, using diagrams, equivalent fractions with small denominators recognise and write decimal equivalents of any number of tenths or hundredths	I can recognise and show, using diagrams, families of common equivalent fractions I can recognise and write decimal equivalents to $^1/_4$; $^1/_2$; $^3/_4$	I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths I can read and write decimal numbers as fractions (e.g. 0.71 = $^{71}/_{100}$) I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents I can recognise the percent 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	I can use common factors to simplify fractions; use common multiples to express fractions in the same denomination I can associate a fraction with division and I can calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $^3/_8$) I can recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

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Addition and subtraction of fractions	I can add and subtract fractions with the same denominator within one whole (e.g. $^5/_7 + {}^1/_7 = {}^6/_7$)	I can add and subtract fractions with the same denominator	I can add and subtract fractions with the same denominator and multiples of the same number I can 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. $^2/_5 + {}^4/_5 = {}^6/_5 = 1{}^1/_5$)	add and subtract fractions with different I can denominators and mixed numbers, using the I can use concept of equivalent fractions
Multiplication and division of fractions and decimals		I can 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	I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	I can multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $^1/_4 \times {}^1/_2 = {}^1/_8$) I can multiply one-digit numbers with up to two decimal places by whole numbers I can divide proper fractions by whole numbers (e.g. $^1/_3 \div 2 = {}^1/_6$) I can multiply one-digit numbers with up to two decimal places by whole numbers I can multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places I can 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 I can associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $^3/_8$) I can use written division methods in cases where the answer has up to two decimal places
Problem solving	I can solve problems that involve all of the above	I can 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	I can solve problems involving numbers up to three decimal places	

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		I can solve simple measure and money problems involving	I can solve problems which require knowing I can find a fraction of a quantity I can multiply a non-unit fraction by an integer I can multiply a unit-fraction by an integer	