PROGRESSION IN FRACTIONS (Decimals A) YEAR 4

Strand	What do I already know?	What am I going to be learning?	What will I learn in Year 5?
Counting in fraction steps	count in fractions up to 10, starting from any number and using the1/2 and 2/4 equivalence on the number line – Y2 Count up and down in tenths – Y3	count up and down in hundredths	
Recognising fractions	recognise, find and name a half and a quarter as one of two or four equal parts of an object, shape or quantity - Y1 recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity – Y2 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators – Y3 recognise that tenths arise from dividing an object into 10 equal parts and in dividing one – digit numbers or quantities by 10 – Y3 recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators – Y3	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
Equivalence	write simple fractions e.g. 1/2 of 6 = 3 and recognise the equivalence of 2/4 and ½ - Y2 recognise and show, using diagrams, equivalent fractions with small denominators – Y3	recognise and show, using diagrams, families of common equivalent fractions recognise and write decimal equivalents of any number of tenths or hundredths	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.
Multiplication and division of decimals		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	*Further work in Y6*
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 1/2, 1/4, 1/5, 2/5, 4/5 and those with a denominator of a multiple of 10 or 25.
Vocabulary	Divide, multiply, denominator, numerator, decimal, decimal place, decimal point, place value, equivalent, tenths, hundredths		