Fractions (including Decimals and Percentages) Progression

Year group	Objectives
Year 1	
Year 2	**Fractions** ● Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity ● 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 ● Write simple fractions e.g. 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2
Year 3	**Fractions** ● Count up and down in tenths ● 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, find and name a quarter as one of four equal parts of an object, shape or quantity ● Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators ● Compare and order unit fractions, and fractions with the same denominators ● Recognise and show, using diagrams, equivalent fractions with small denominators ● Add and subtract fractions with the same denominator within one whole (e.g. 5/7 + 1/7 = 6/7) ● Solve problems that involve all of the above
Year 4	**Fractions** ● count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten ● recognise and show, using diagrams, families of common equivalent fractions ● add and subtract fractions with the same denominator ● 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 **Decimals** ● recognise and write decimal equivalents of any number of tenths or hundredths ● recognise and write decimal equivalents to ½, ¼ and ¾ ● round decimals with one decimal place to the nearest whole

	number ● compare numbers with the same number of decimal places up to two decimal places ● solve simple measure and money problems involving fractions and decimals to two decimal places
Year 5	**Fractions** ● identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths ● recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example ⅖ + ⅘ = 6/5 = 1 ⅕ ● compare and order fractions whose denominators are all multiples of the same number ● add and subtract fractions with the same denominator and denominators that are multiples of the same number ● multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams **Decimals** ● read and write decimal numbers as fractions [for example, 0.71 = 71/100] ● recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents ● round decimals with two decimal places to the nearest whole number and to one decimal place ● read, write, order and compare numbers with up to three decimal places **Fractions, Decimals and Percentages** ● recognise the percent symbol (%) and understand that percent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal ● solve problems which require knowing percentage and decimal equivalents of ½ , ¼, ⅕ , ⅖, ⅘ and those fractions with a denominator of a multiple of 10 or 25
Year 6	**Fractions** ● use common factors to simplify fractions; use common multiples to express fractions in the same denomination ● compare and order fractions, including fractions > 1 ● add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions ● multiply simple pairs of proper fractions, writing the answer in its simplest form [for example ¼ x ½ = ⅛] ● divide proper fractions by whole numbers [for example ⅓ ÷ 2 = ⅙] **Decimals** ● identify the value of each digit in numbers given to three decimal

	places
	Fractions, Decimals and Percentages ● associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, ⅜] ● recall and use equivalences between simple fractions, decimals and percentages, including in different contexts