Fractions Decimals Percentages Progression

Fractions: Recognise & Write

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
•	• 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 1/3, ¼, 2/4 and 3/4 of a length, shape, set of objects or quantity	• count up and down in tenths; 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 write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators • recognise	• count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.	• 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 2/5 +4/5 = 6/5 = 1 1/5)	

			and use fractions as numbers: unit fractions and non-unit fractions with small denominators			
	Summer 2	Summer 1	Spring 3	Spring 4 Summer 1	Autumn 4	

Fractions: Compare

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		• Recognise the equivalence of 2/4 and 1/2	• recognise and show, using diagrams, equivalent fractions with small denominators • compare and order unit fractions, and fractions with the same denominators	• recognise and show, using diagrams, families of common equivalent fractions	• compare and order fractions whose denominators are all multiples of the same number	• use common factors to simplify fractions; use common multiples to express fractions in the same denomination • compare and order fractions, including fractions > 1
		Summer 1	Spring 3	Spring 3	Autumn 4	Autumn 3

Fractions: Calculations

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		• write simple fractions for example ½ of 6 = 3	• add and subtract fractions with the same denominator within one whole (for example, 5/7 + 1/7 = 6/7	• add and subtract fractions with the same denominator	• 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	• 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 = 1/8 • divide proper fractions by whole numbers [for example 1/3 ÷ 2 = 1/6
		Summer 1	Summer 1	Spring 3	Autumn 4 Spring 2	Autumn 3 Autumn 4

Fractions: Solve Problems

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			• 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		
			Spring 3 Summer 1	Spring 3		

Decimals: Recognise, Write, Compare

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				• recognise and write decimal equivalents of any number of tenths or hundredths • recognise and write decimal equivalents to ¼, ½, 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	• read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$] • 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	• identify the value of each digit in numbers given to three decimal places
				Spring 4 Summer 1	Spring 3 Summer 3	Spring 3

Decimals: Recognise, Write, Compare

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				• solve simple measure and money problems involving fractions and decimals to two decimal places	• 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, and as a decimal • solve problems which require knowing percentage and decimal equivalents of ½, ¼, 1/5, 2/5 and 4/5 those fractions with a denominator of a multiple of 10 or 25	• associate a fraction with division and calculate decimal fraction equivalents (for example, 0.375) for a simple fraction (for example, 3/8) • recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
				Spring 3 Spring 4 Summer1	Spring 3	Spring 3 Spring 4