



Maths Progression Map– 2022

Fractions, decimals and percentages

Year group/ Expected level	Fractions			Decimals			Percentages		
	Term 1	Term 2	Term 3	Term 1	Term 2	Term 3	Term 1	Term 2	Term 3
Year 1		Recognise, find and name a half as 1 of 2 equal parts of an object, shape or quantity	Recognise, find and name a quarter as 1 of 4 equal parts of an object, shape or quantity						
Year 2	- Know that one half is the same as two quarters - Know what a half (two quarters), a quarter and three quarters are	Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length and shape	- Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a set of objects or quantity - Write simple fractions, for example $\frac{1}{2}$ of $6 = 3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$						

Year 3	Term 1 - Write a fraction using the term numerator and denominator. - Recognise and show equivalence of fractions - Count up and down in tenths	Term 2 - Find unit fractions of a set of objects ($\frac{1}{4}$ of 12, $\frac{1}{3}$ of 9) - Find unit fractions of a number ($\frac{1}{4}$ of 12, $\frac{1}{2}$ of 8) - Order fractions on a number line including whole numbers and unit fractions.	Term 3 - Find non-unit fractions of a set of objects ($\frac{2}{3}$ of 9, $\frac{3}{4}$ of 16) - Find non-unit fractions of a number - Add and subtract fractions with the same denominator within one whole - Solve problems involving fractions.	Term 1	Term 2	Term 3	Term 1	Term 2	Term 3
Year 4	Term 1 - Recognise and show, using diagrams, families of common equivalent fractions. - Order and compare fractions using $<$ $>$ $=$	Term 2 - Find unit and non-unit fractions and apply to problems. - Add and subtract fractions with the same denominator	Term 3 Solve fractions problems	Term 1 - Divide and multiply whole numbers by 10 and 100 - Count up and down in hundredths- recognise that hundredths arise when dividing a single digit whole number by 100 - Compare and order numbers with decimal places that include tenths and hundredths. Eg 1.02 1.1 1.25	Term 2 - Round decimals with one decimal place to the nearest whole number - Divide and multiply numbers- including decimal numbers- by 10 and by 100 and 1000 - Recognise and write decimal equivalents to tenths and hundredths for example $\frac{1}{10} = 0.1$ - Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ and place them on a number line.	Term 3 - Solve problems that involve adding and subtracting whole numbers and decimals - Recognise and write decimal equivalents to any number of tenths or hundredths. ($\frac{1}{10} = 0.1$ $\frac{1}{100} = 0.01$)	Term 1	Term 2	Term 3

Year 5	Term 1 - Identify name and write equivalent fractions - Order and compare fractions whose denominators are all multiples of the same number including tenths and hundredths.	Term 2 - Recognise mixed numbers and improper fractions and convert from one to another - Find a fraction of an amount (e.g. $\frac{4}{7}$ of 280) - Add and subtract fractions with the same denominator or whose denominators are all multiples of the same number	Term 3 - Read and write decimal fractions as fractions. - Multiply proper fractions and mixed numbers by whole numbers	Term 1 - Read, write, order and compare numbers with up to three decimal places - Recognise and use thousandths	Term 2 - Round numbers with two decimal places to the nearest whole number to one decimal place. - Add whole numbers and decimals	Term 3 - Solve problems involving numbers up to three decimal places - Solve problems which require knowing percentage and decimal equivalents $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{2}{5}$ $\frac{4}{5}$ $\frac{3}{4}$	Term 1	Term 2 Recognise and understand the percent symbol- %	Term 3
	Term 1 - Use common factors to simplify fractions and use common multiples to express fractions in the same denomination - Compare and order fractions, including fractions greater than 1 - Add and subtract fractions with different denominators and mixed numbers - Find fractions of amounts	Term 2 - Multiply simple pairs of proper fractions - Calculate equivalent decimal fractions - Divide proper fractions by whole numbers	Term 3	Term 1 - Add whole numbers and decimals - Subtract whole numbers and decimals - Identify the value of each digit to three decimal places, multiply and divide by 10,100, 1000 - Multiply one-digit numbers with up to two decimal places by whole numbers	Term 2 - Use written division methods to divide whole numbers and decimals	Term 3	Term 1	Term 2 Recall and use equivalences between simple fractions and percentages	Term 3 Solve problems which require answers to be rounded to specified degrees of accuracy

