

MATHS PROGRESSIONS:

Fractions

Key: Counting in steps (fraction intervals)

Mental calculations

Formal written methods

Representations/models

Known facts for multiplication

Using and applying

Estimation and checking

- Count forward and back in hundredths
- Understand that hundredths arise from dividing 1 by 100 or tenths by 10

YEAR 4

- Count in fractions up to 10 in intervals of a quarter on a numberline
- Know that $\frac{2}{4}$ is the same as $\frac{1}{2}$ (begin to understand equivalencies)
- Recognise, find, name and write $\frac{1}{3}$, $\frac{1}{2}$, $\frac{3}{4}$ of a length, shape, set of objects or quantity

- Write simple fractions of quantity—finding a half of a quantity

- Compare decimal numbers and equivalent fractions up to 2.d.p
- Round decimal numbers to the nearest whole

- Recognise and show through diagrams; families of common equivalent fractions
- Recognise and write decimal equivalents to $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$

- Add and subtract fractions with the same denominator
- Solve problems that involve calculating, finding equivalents, representation through diagrams and models

- Find, recognise and name a half as one part of two equal parts (emphasise what equal and unequal looks like)
- Identify a half in terms of one half of an object, quantity or shape

YEAR 1

- Find, recognise and name a quarter as one part of 4 equal parts
- Identify a quarter in terms of one quarter of an object or quantity

RECEPTION

- Compare and order fractions where fractions are greater than 1
- Use common factors to simplify fractions and common multiples to express fractions in the same denominator

- Associate a decimal with a fraction and find decimal equivalents efficiently
- Recall equivalencies of fractions, decimals and percentages

- Add and subtract fractions with different denominators; including mixed numbers and improper fractions

YEAR 6

- Multiply fractions and simplify accordingly
- Divide proper fractions by whole numbers

- Multiply and divide numbers by 10, 100 and 1000 with efficiency
- Solve routine and non-routine problems involving fractions

YEAR 5

- Recognise and use thousandths, and relate them to tenths, hundredths and decimal equivalents
- Compare and order fractions whose denominators are all multiples of the same number

- Read, write, order and compare numbers up to 3.d.p
- Round decimal numbers to the nearest whole number, tenth and hundredth

- Identify, name and write equivalent fractions—represent visually
- Read and write decimal numbers as fractions
- Recognise and use thousandths and know the relationship between thousandths, hundredths and tenths.
- Recognise the % symbol and realise that it relates to 'out of 100' - find equivalent fractions to %s where 100 is the denominator

YEAR 3

- Count forward and back in tenths
- Find and write unit and non-unit fractions with small denominators

- Recognise and show through diagrams, equivalent fractions
- Add and subtract fractions with the same denominator
- Solve real-life problems involving fractions

- Recognise that tenths arise from dividing equally into 10 equal parts
- Compare and order unit fractions with the same denominator