MATHS PROGRESSION:

Fractions

Key: Counting in steps (fraction intervals)

Mental calculations

Formal written methods

Representations/models

Known facts for multiplication

Using and applying

♦ Count forward and back in hundredths

ing 1 by 100 or tenths by 10

♦ Understand that hundredths arise from divid-

Estimation and checking

- ♦ 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 efficient-
- ♦ Recall equivalencies of fractions, decimals and percentages
- ♦ Add and subtract fractions with different denominators; including mixed numbers and improper fractions



- 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



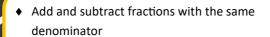
- Count in fractions up to 10 in intervals of a
- ♦ Know that 2/4 is the same as 1/2 (begin to understand equivalencies)

quarter on a numberline

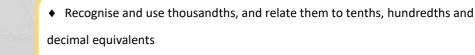
- ♦ Recognise, find, name and write 1/3, 1/2, 3/4 of a length, shape, set of objects or quantity
- Write simple fractions of quantity—find ing a half of a quantity

YEAR 2

- ♦ 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 frac-
- Recognise and write decimal equivalents to 1/2,1/4 3/4



♦ Solve problems that involve calculating, finding equivalents, representation through diagrams and models



Compare and order fractions whose denominators are all multiples of the same number

YEAR 5

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

- ♦ 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
- Count forward and back in tenths

♦ Recognise and show through diagrams, equiv-

Add and subtract fractions with the same

alent fractions

♦ Find and write unit and non-unit fractions with small denominators

year 3

- ♦ 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

- 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
- 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