Year 3

Fractions, Decimals and Percentages

- I can count up and down in tenths

- I can recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.

- I can recognise that tenths arise from dividing an object into 10 equal parts and in dividing one – digit numbers or quantities by 10.

- I can recognise and use fractions as numbers: unit fractions and non-unit fractions with small de-nominators

- I can recognise simple fractions such as ½ and ¼ (CPA)

- I can recognise more complex fractions such as ¾ and (CPA)

- I can compare and order simple unit fractions such as ½ and ¼ and fractions with the same de-nominator

- I can solve problems that involve all of the above

Vocabulary : Compare, order, numerator, denominator, unit fraction , tenths, scaling

Year 4

Fractions, Decimals and Percentages

- I can count up and down in hundredths and recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten
- I can round decimals with one decimal place to the nearest whole number
- I can recognise and show, using diagrams, families of common equivalent fractions
- I can recognise and write decimal equivalents of any number of tenths or hundredths
- I can recognise and write decimal equivalents to 1/4 ; 1/2 ; 3/4
- I can 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
- I can solve simple measure and money problems involving fractions and decimals to two decimal places
- I can compare numbers up to 100,000 and with up to 2d.p.

Vocabulary: equivalent, decimal, tenths, round, diagram

Year 6

Fractions, Decimals and Percentages

- I can compare and order fractions, including fractions > 1
- I can solve rounding problems which require answers to be rounded to specified degrees of accuracy
- I can use common factors to simplify fractions; use common multiples to express fractions in the same denomination
- I can associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3 / 8)
- I can recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
- I can use written division methods in cases where the answer has up to two decimal places
- I can associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 8 3]

Ratio and Proportion

- I can solve problems involving the relative sizes of two quantities where missing values can be found by using integer mul-tiplication and division facts
- I can solve problems involving similar shapes where the scale factor is known or can be found
- I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples

Algebra

- I can express missing number problems algebraically
- I can find pairs of numbers that satisfy number sentences involving two unknowns
- I can enumerate all possibilities of combinations of two variables
- I can use simple formulae
- I can generate and describe linear number sequences

Vocabulary: degree of accuracy, simplify, linear, substitute, variables, symbol, known values

Year 5

Fractions, Decimals and Percentages

- I can compare and order fractions whose denominators are all multiples of the same number
- I can round decimals with two decimal places to the nearest whole number and to one decimal place
- I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
- I can read, write, order and compare numbers with up to three decimal places
- I can read and write decimal numbers as fractions (e.g. 0.71 = 71 / 100
- I can recognise and use thousandths and relate them to tenths, hundredths and decimal equiv-alents
- I can 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 as a decimal fraction
- I can recognise mixed numbers fractions and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. 2 / 5 + 4 / 5 = 6 / 5 = 1 1 / 5)
- I can solve problems involving numbers up to three decimal places
- I can solve problems which require knowing percentage and decimal equivalents of 1 / 2 , 1 / 4 , 1 / 5 , 2 / 5 , 4 / 5 and those with a denominator of a multiple of 10 or 25

Vocabulary : improper fractions, mixed number, percentage, half, quarter, ratio, proportion