Maths – Fractions

The Federation of Nettlestone & Newchurch

Maths - Fractions, Decimals and Percentages					
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 • I can recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	• I can recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity. • I can write simple fractions e.g ½ of 6 = 3 and recognise the equivalents of 2/4 and 1/2	• I can 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 • 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 and show, using diagrams, equivalent fractions with small denominators • I can compare and order unit fractions and fraction with the same denominator • I can recognise that tenths arise from dividing an object into ten equal parts and dividing 1 digit numbers or quantities by 10	• I can recognise and show, using diagrams, families of common equivalent fractions • I can count up and down in hundredths; 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 solve simple measure and money problems involving fractions and decimals to two decimal places • I can add and subtract fractions with the same denominator • I can recognise and show fractions, using diagrams eg fraction walls and number lines • I can find the effect of dividing a one or two digit number by 10 and	• I can compare and order fractions whose denominators are all multiples of the same number • I can read and write decimal numbers as fractions e.g. 0.71 = 71/100 • I can read, write, order and compare numbers with 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 fractions with a denominator of a multiple of 10 or 25 • I can recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. $\frac{2}{5}$ + $\frac{4}{5}$ = $\frac{6}{5}$ = $1\frac{1}{5}$)	• I can solve problems which require answers to be rounded to specified degrees of accuracy. • I can use written division methods in cases where the answer has up to two decimal places. • I can recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. • I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. • I can associate a fraction with division and calculate decimal equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8). • I can compare and order fractions, including fractions >1.

			• I can add and subtract fractions with the same denominator within one whole (e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$)	100, identifying the value of the digits in the answer as ones tenths and hundredths • I can recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten • I can compare numbers with the same number of decimal places up to two decimal places • I can identify the value of the digits in the answer as ones, tenths and hundredths • I can recognise and write decimal equivalents of any number of tenths or hundredths • I can recognise and write decimals equivalents to ¼, ½, ¾	• I can round decimals with one decimal place to nearest whole number. • I can add and subtract fractions with the same denominator and multiples of the same number. • I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths? • I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. • 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 hundred, and as a decimal fraction. • I can round decimals with two decimal places to the nearest whole number and to one decimal place.	• I can identify the value of each digit to three decimal places and multiply and divide numbers by 10,100 and 1000 where the answers are up to three decimal places. • I can multiply 1-digit numbers with up to two decimal places by whole numbers. • I can multiply simple pairs of proper fractions; writing the answer in its simplest form (e.g. ¼ × ½ = 1/8) • I can use common factors to simplify fractions; use common multiples to express fractions in the same denominations. • I can divide proper fractions by whole numbers (e.g. 1/3 divided by 2 = 1/6)

| | | | | I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. I can solve problems involving number up to three decimal places. | |