St Giles' C of E Primary School FRACTIONS Progression

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
FRACTIONS **(including ratio and proportion for year 6)**		* recognise, find and name a half as one of two equal parts of an object, shape or quantity * recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	* recognise, find and name and write fractions ½ ¼ ^{2}/4 and ¾ of a length, shape, set of objects or quantity * write simple fractions For example: ½ of 6 = 3 and recognise the equivalence of ^{2}/4 and ½	* count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and dividing one- digit numbers or quantities by 10 * recognise, find and write fractions of a discreet set of objects: unit fractions and non-unit fractions with small denominators * recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators * recognise and show, using diagrams, equivalent fractions with small denominators * add and subtract fractions with the same denominator within one whole * compare and order unit fractions, and fractions with the same denominators * solve problems involving all of the above	* recognise and show, using diagrams, families of common equivalent fractions * count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten * solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, involving non-unit fractions where the answer is a whole number * add and subtract fractions with the same denominator * recognise and write decimal equivalents of any number of tenths or hundredths * find the effect of dividing one- and two-digit numbers by 10 and 100, identifying the value of the digits in the answer as ONES, TENTHS and HUNDREDTHS * round decimals with one decimal place to the nearest w hole number * compare numbers with the same number of decimal places up to two decimal places * solve simple measure and money problems involving fractions and decimals to two decimal places	* compare and order fractions whose denominators are all multiples of the same number * identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths * recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number * add and subtract fractions with the same denominator and denominators that are multiples of the same number * multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams * read and w rite decimal numbers as fractions * recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents * round decimals with two decimal places to the nearest w hole number and to one decimal place * read, write, order and compare numbers with up to three decimal places * solve problems involving numbers up to three decimal places * recognise the per-cent symbol (%) and understand that % relates to 'number of parts per-hundred * write % as a fraction with denominator 100 and as a decimal * solve problems which require knowing % 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	* use common factors to simplify fractions; use common multiples to express fractions in the same denomination * compare and order fractions, including fractions >1 * add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions * multiply simple pairs of proper fractions, writing the answer in its simplest form * divide proper fractions by whole numbers * associate a fraction with division and calculate decimal fraction equivalents * identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places * recall and use equivalences between simple fractions, decimals and percentages, including in different contexts * multiply one-digit numbers with up to two decimal places by whole numbers * use written division methods in cases where the answer has up to two decimal places * solve problems which require answers to be rounded to specified degrees of accuracy

Year 6 Ratio and Proportion

* solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts
* solve problems involving the calculation of percentages and the use of percentages for comparison
* solve problems involving similar shapes where the scale factor is known or can be found
* solve problems involving unequal sharing and grouping using know ledge of fractions and multiples