St Benedict's Catholic Primary School
Progress in Skills: Mathematics:
Fractions, Decimals and Percentages

With Jesus, we learn, love and laugh

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn Term	Recognise, find and name a half as one of 2 equal parts of an object, shape or quantity. Recognise, find and name a quarter as one of 4 equal parts of an object, shape or quantity.			Recognise and write decimal equivalents on any number of tenths or hundredths. Count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10. Add and subtract fractions with the same denominator. Compare numbers with the same number of decimal places up to 2 decimal places. Solve problems involving increasingly harder fractions to calculate quantities.	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place. Read, write, order and compare numbers with up to 3 decimal places.	Use common multiples to express fractions in the same denomination. Add and subtract fractions with different denominators & mixed numbers, using the concept of equivalent fractions. Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. ¼ x ½ = 1/8) Multiply 1-digit numbers with up to 2 decimal places by whole numbers. Divide proper fractions by whole numbers (e.g. 1/3 ÷ 2 = 1/6) Use written division methods in cases where the answer has up to 2 decimal places.
Spring Term		Recognise, find, name and write fractions 1/3, ¼, 2/4, and ¾ of a length, shape, set of objects or quantity. Write simple fractions e.g. 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 & in dividing 1-digit numbers or quantities by 10 Compare and order unit fractions with the same denominators.	Recognise and show using diagrams, families of common equivalent fractions. Recognise and write decimal equivalents to ¼, ½, and ¾ Find the effect of dividing a 1-digit or 2-digit number by 10 or 100, identifying the	Identify, name and write equivalent fractions of a given fraction, represented visually, incl tenths and hundredths. Read and write decimal numbers as fractions (e.g. 0.71 = 71/100 Recognise mixed numbers and improper fractions &	Associate a fraction with division & calculate decimal fraction and equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8) Identify the value of each digit to 3 decimal places and multiply & divide numbers by 10, 100, 1000 where the answers are up to 3 decimal places.

			Recognise and write fractions of a discrete set of objects; unit fractions & non-unit fractions with small denominators. Recognise and show using diagrams, equivalent fractions with small denominators. Add and subtract fractions with the same denominator <1 whole. Solve problems involving fractions and decimals.	value of the digits in the answer as units, tenths and hundredths. Round decimals with 1 decimal place to the nearest whole number. Solve problems involving increasingly harder fractions to calculate quantities and fractions to divide quantities, incl. non-unit fractions where the answer is a whole number.	convert from one to the other & write mathematical statements. Compare and order fractions, whose denominators are all multiples of the same number. Add and subtract fractions with the same denominator and multiples of the same number. Multiply proper fractions & mixed numbers by whole numbers, supported by materials and diagrams. Solve problems involving numbers up to 3 decimal places.	Compare and order fractions, incl. fractions >1 Use common factors to simplify fractions. Recall and use equivalence between simple fractions, decimals and percentages, incl. in different contexts. Solve problems involving the calculation of percentages of whole numbers.
Summer Term				Solve simple money and measure problems involving fractions and decimals to 2 decimal places.	Recognise the symbol % and understand that percent relates to 'number or parts per 100' and write percentages as a fraction with denominator 100 and as a decimal fraction. Solve problems which require knowing percentage & decimal equivalents of ½, quarters, fifths and those with a denominator of a multiple of 10 or 25. Solve problems involving numbers up to 3 decimal places.	Solve problems involving the calculation of percentages of whole numbers or measures such as 15% of 360 and the use of percentages for comparison. Solve problems which require answers to be rounded to specified degrees of accuracy.