Planning overview

(We aim to teach in a creative way and to ensure that pupils make connections with maths and the wonder of the world, therefore teachers will pick objectives to fit with other areas of the curriculum. The organisation is for guidance purposes and progression).

Number – Fractions

	Autumn Term	Spring Term	Summer Term
Y1 Skills-fractions: apply, estimate, connect, use, solve, interpret, conjecture, analyse, investigate, conclude.			
	Knowledge	**Knowledge**	**Knowledge**
1		1. recognise, find and name a half as one of two equal parts of an object, shape or quantity	1. recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.

	Autumn Term	Spring Term	Summer Term
Y2 Skills-fractions: apply, estimate, connect, use, solve, interpret, conjecture, analyse, investigate, conclude.			
	Knowledge	**Knowledge**	**Knowledge**
2	1.write simple fractions for example, ½ of 6=3.	1. write simple fractions for example, ½ of 6=3.and recognise the equivalence of 2/4 and ½.	recognise, find, name and write fractions 1/3, ¼, 2/4, ¾ of a length, shape, set of objects or quantity.

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	Autumn Term	Spring Term	Summer Term
Y3 Skills-fractions: apply, estimate, connect, use, solve, interpret, conjecture, analyse, investigate, conclude.			
	Knowledge	Knowledge	Knowledge
3	1.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. 2. recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	1. add and subtract fractions with the same denominator within one whole for example 5/7 + 1/7=6/7. 2. compare and order unit fractions, and fractions with the same denominators	1. solve problems that involve all fractions learning to date.

	Autumn Term	Spring Term	Summer Term
Y4 Skills- fractions: apply, estimate, connect, use, solve, interpret, conjecture, analyse, investigate, conclude.			
	Knowledge	Knowledge	Knowledge
4	1.recognise and show, using diagrams, families of common equivalent fractions. 2. count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. 3. add and subtract fractions with the same denominator. 4. recognise and write decimal equivalents to.	1. round decimals with one decimal place to the nearest whole number . 2.compare numbers with the same number of decimal places up to two decimal places.	1. solve simple measure and money problems involving fractions and decimals to two decimal places.

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	Autumn Term	Spring Term	Summer Term
Y5 Skills- fractions: apply, estimate, connect, use, solve, interpret, conjecture, analyse, investigate, conclude.			
	Knowledge	Knowledge	Knowledge
5	1.compare, order and subtract fractions whose denominators are all multiples of the same number. 2. read and write decimal numbers as fractions. 3. recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. 4. round decimals with two decimal places to the nearest whole number and to one decimal place 5. read, write, order and compare numbers with up to three decimal places. 6. 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, and as a decimal.	1. recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements. 2. solve problems involving number up to three decimal places. 3. solve problems which require knowing percentage and decimal equivalents ofn1/2, ¼, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25.	1. multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

	Autumn Term	Spring Term	Summer Term
Y6 Skills- fractions: apply, estimate, connect, use, solve, interpret, conjecture, analyse, investigate, conclude.			
	Knowledge	Knowledge	Knowledge
6	1.use common factors to simplify fractions; use common multiples to express fractions in the same denomination. 2.add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. 3. 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. 4. multiply one-digit numbers with up to two decimal places by whole numbers	1. multiply simple pairs of proper fractions, writing the answer in its simplest form for exampled 1/4x1/2=1/8. 2. divide proper fractions by whole numbers for example 1/3 divided by 2=1/6.	1. associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example,3/8.