

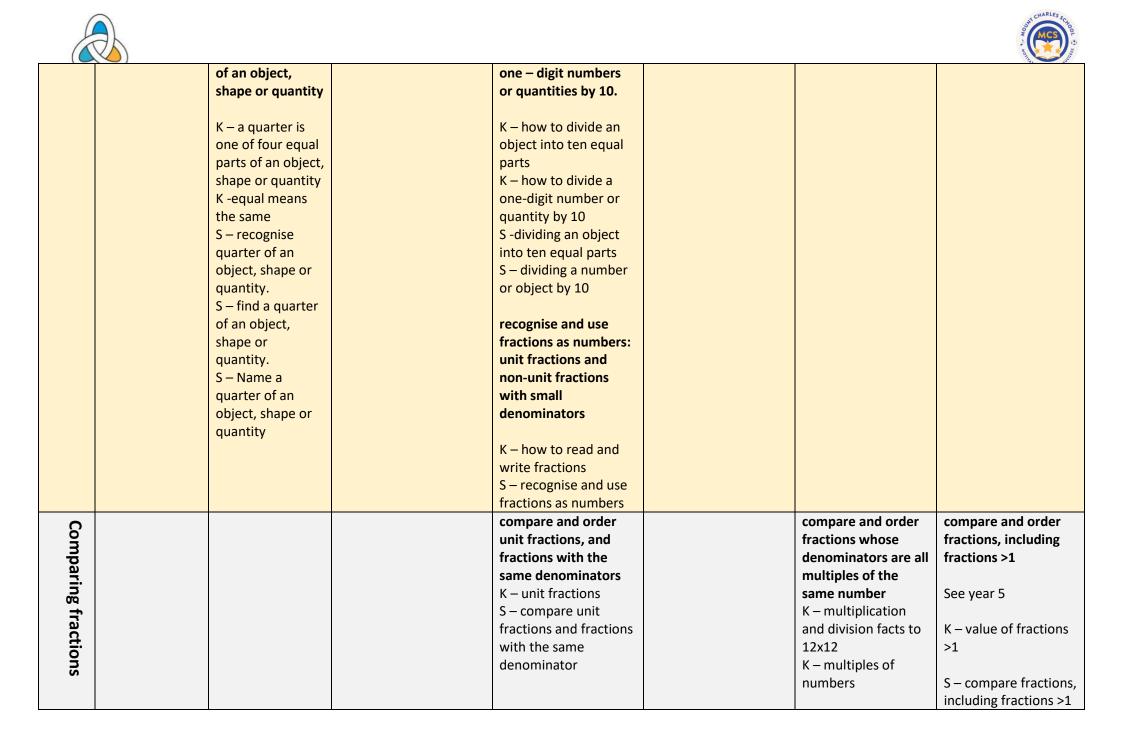


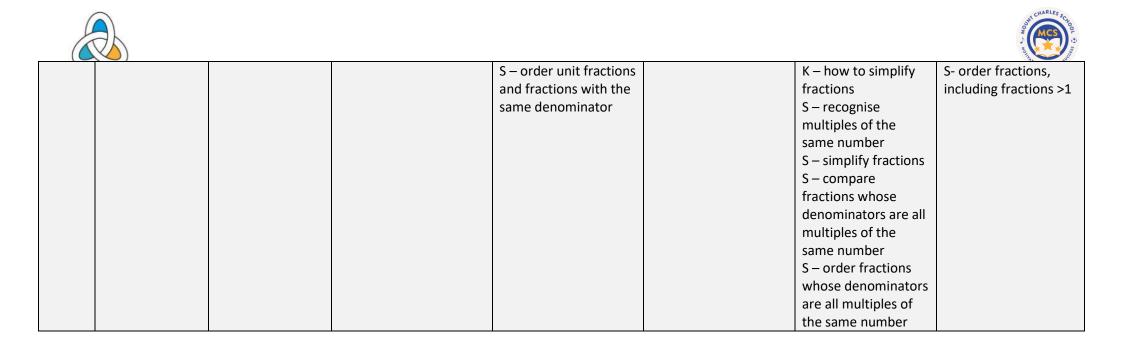
	Mount Charles School Fractions										
	Objective. K-Knowledge.     S-Skills       EYFS     Year 1     Year 2     Year 3     Year 4     Year 5     Year 6										
New Vocabulary	Whole Equal One half	Halves Half Quarter, two quarters Equal parts, four equal parts Two halves	whole equal equal parts 12 fraction denominator fraction bar numerator 1/4 third 1/3 unit fraction non-unit fraction equivalent, equivalence <sup>3</sup> / <sub>4</sub>	tenth interval mixed number equivalent fraction inequality statement numerator denominator unit fraction, non-unit fraction compare and order	hundredth simplest fraction simplify improper fraction decimal decimal point equivalent decimals and fractions	Common denominator thousandth one decimal place two decimal places Per cent (%) percentage Proper fractions, improper fractions, mixed numbers Half, quarter, fifth, two fifths, four fifths Ratio, proportion	common factor highest common factor lowest common multiple (LCM) lowest common denominator decree of accuracy simplify				
Counting in fractional steps			Pupils should count in fractions up to 10, starting from any number and using the1/2 and 2/4 equivalence on the number line (Non Statutory Guidance) K – whole numbers can be split into smaller parts K- the name of those parts depends on how many there are K- how half and quarter are represented	count up and down in tenths K- each part of a whole number which has been split into ten is called a tenth K – how a tenth is represented S – counting up and down in tenths	<pre>count up and down in hundredths K – how a hundredth is represented S – counting up and down in hundredths</pre>						





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	Begins to	recognise, find	<ul> <li>K – ½ is equivalent to 2/4</li> <li>S – counting in quarters</li> <li>S -counting in halves</li> <li>S – counting in quarters or halves up to 10</li> <li>recognise, find, name</li> </ul>	recognise, find and	recognise that	recognise and use	
Recognising fractions	conceptually subitise larger numbers by subitising smaller groups within the number, e.g. sees six raisins on a plate as three and three	and name a half as one of two equal parts of an object, shape or quantity K – half is one of two equal parts of an object, shape or quantity K -equal means the same S – recognise half of an object, shape or quantity. S – find half of an object, shape or quantity. S – Name half of an object, shape or quantity recognise, find and name a quarter as one of four equal parts	and write fractions $1/3$ , 1/4, $2/4$ and $3/4$ of a length, shape, set of objects or quantity K – the denominator denotes how many pieces the set of objects or quantity has been split into K – 1/3 equals one third K – 1/3 equals one quarter S – recognise 1/3, $\frac{1}{4}$ , $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity. S – find 1/3, $\frac{1}{4}$ . $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity S – name 1/3, $\frac{1}{4}$ , $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity.	<pre>vite fractions of a discrete set of objects: unit fractions (1/a) and non-unit fractions (2/a etc) with small denominators K - vocab - unit fraction, non-unit fraction K - vocab - numerator and denominator K - how to split a set of objects equally S - recognise fractions of a set of objects S - find fractions of a set of objects S - write fractions of a set of objects recognise that tenths arise from dividing an object into 10 equal parts and in dividing</pre>	<ul> <li>hundredths arise</li> <li>when dividing an</li> <li>object by one</li> <li>hundred and dividing</li> <li>tenths by ten</li> <li>K – that dividing an</li> <li>object by one hundred</li> <li>and dividing tenths by</li> <li>ten both give</li> <li>hundredths</li> <li>K – fraction and</li> <li>decimal notation for</li> <li>tenths and hundredths</li> <li>K – know the value of</li> <li>the digits when</li> <li>writing ones, tenths</li> <li>and hundredths</li> <li>S - dividing by 100 and</li> <li>10</li> <li>S – writing tenths and</li> <li>hundredths as</li> <li>fractions and decimals</li> </ul>	thousandths and relate them to tenths, hundredths and decimal equivalents (appears also in Equivalence) K -how to read decimals numbers to 3 decimal places K – the relationship between tenths, hundredths and thousandths K – how to divide by 1000 S – recognise thousandths S – use thousandths S – relate thousandths to tenths and hundredths.	









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0			compare numbers	read, write, order	identify the value of
Comparing decimals			with the same	and compare	each digit in numbers
qr			number of decimal	numbers with up to	given to three
ari			places up to two	three decimal places	decimal places
g			decimal places		
d				K- place value of	K – place value of
ec			K – place value of	numbers with up to	numbers given to
Ē			numbers with up to	three decimal places	three decimal places
al			two decimal places	K – how to group	
0,			K - size of decimal	numbers to read	S – identify the value
			number depends on	them	of each digit in a
			value of the digits not	K – decimal numbers	number given to
			the number of digits	are read as singular	three decimal places
			after the decimal point	digit rather than a	
			K – hundredths are	group of numbers	
			smaller than tenths	K - Thousandths are	
			K – how to compare	smaller than	
			numbers using <, >	hundredths	
			and =	K - size of decimal	
			S – compare numbers	number depends on	
			with the same number	value of the digits	
			of decimal places up	not the number of	
			to two decimal places.	digits after the	
				decimal point	
				S – read and write	
				numbers with up to	
				three decimal places	
				S- to order and	
				compare numbers	
				with up to three	
				decimal places	





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Rounding including decimals				round decimals with one decimal place to the nearest whole number K – how a whole number can be broken down into tenths S- place decimal numbers on number line S – round decimals with one decimal place to the nearest whole number	round decimals with two decimal places to the nearest whole number and to one decimal place K – how tenths can be broken down into hundredths K – ordering decimals S – round decimals with two decimal places to the nearest whole number and to one decimal place.	solve problems which require answers to be rounded to specified degrees of accuracy K – real-life situations where rounding decimals is appropriate S – understanding the knowledge and skills required to solve the problem S – rounding any number to a specified degree of accuracy
Equivalence (including fractions, decimals and percentages)		write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ . K – the denominator denotes how many groups the number/object is split into K – the numerator denotes how many of the groups there are	recognise and show, using diagrams, equivalent fractions with small denominators K – how to represent a fraction with a diagram K – to find equivalent fractions the diagrams drawn to show the fractions must be the same	recognise and show, using diagrams, families of common equivalent fractions K – there can be more than one equivalent fraction S - recognise families of common equivalent fractions S – show, using diagrams, families of common	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths K – multiples of numbers K – how to find equivalent fractions using multiples K – how to read and represent tenths and hundredths	use common factors to simplify fractions; use common multiples to express fractions in the same denomination K – what a factor and common factor is K – how to find common factors of a number K – what a common multiple is K – how to find common multiples





$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$( \bigtriangleup$					MO THE STATE
K - how to divide a group of objects or a humber K - some fractions can be represented in more than one way S - write simple fractions of a amount S - show equivalent fractions is - recognise the equivalence of 2/4 and $\chi^2$ diagram S - recognise and write equivalent fractions the nome target of the same the nome way S - write simple fractions of a given fractions interactions in the same the nome target of the same equivalent fractions given amount S - recognise the equivalent of the same the same of 2/4 and $\chi^2$ diagram S - show equivalent fractions of the same the same of the same of the same of the same the same of the sa		K – how to write	•	equivalent	S – identify	S – use common
$\begin{bmatrix} s & s & s & s & s & s & s & s & s & s $			fraction with a	fractions	•	
$\begin{bmatrix} 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 $			-			
K - some fractions can be represented in more than one way S - witte simple fractions of an amount S - spit a number or group of objects into a given amountwith small denominatorsof any number of tenths or hundredthsof a given fraction including tenths and hundredthsmultiplies to express fractions in the same denominationS - show equivalent given amount 3cS - show equivalence of 2/4 and 3cK - how to read and write decimal sup to two decimal places K - moderstand the link between 1/10 and $0.1$ and 1/100 and $0.2$ and the decimal $0.1$ and the decimal $0.1$ and the decimal $0.1$ and the decimal $0.1$ and the decima			0	recognise and write		
Image: base of the section of the s			•	-	•	
$ \begin{bmatrix} han one way \\ S - write simple \\ fractions of an amount \\ S - split a number or group of objects into a given amount \\ S - creagines the equivalence of 2/4 and \frac{1}{2}$				-	-	
$\left  \begin{array}{ c  c  c  c  c  c  c  c  c  c  c  c  c $		•		tenths or hundredths	0	
Image: split a number of group of objects into a given amount $S - recognise theequivalence of 2/4 and\frac{1}{2}fractions with smalldenominatorswrite decimals up totwo decimal placesK - how to read tenthsand hundredths whenand hundredthsS - recognise andwrite decimalequivalents of anynumber of tenths orhundredthsassociate a fractionwith divisionS - read decimalnumbers as fractionsS - read decimalnumbers as fractionsS - recognise and uvritedecimal equivalents of anynumber of tenths orhundredthsand decimalnumbers to 3recognise and writedecimal equivalentsto \frac{1}{2}, \frac{1}{2}, \frac{3}{2}, \frac{1}{4}R- how fractionsrecognise and usethousandths andrelate the motos - sasociate afraction equivalentss - short division to adecimal placesS - short divisionS - short divisionS - short division to adecimal placesK - how thousandthsrelate to tenths andrelate to tenths andrelate to tenths andrecal and usedecimal placesK - how thousand$		-			hundredths	denomination
S - split a number or group of objects into a given amount S - recognise the equivalence of 2/4 and %denominatorstwo decimal places K - how to read tenths and hundredths when written as fractions K - understand the link between 1/10 and 0.01 S - recognise and write decimal outber of tenths or hundredthsread and write decimal numbers as fraction (e.g. 0.712)with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. %)K - how to read tenths and hundresting the equivalence of 2/4 and %K - how to read tenths and hundresting the between 1/10 and 0.01 S - recognise and write decimal equivalents of any number of tenths or hundredthsK - how to read tenths and hundrest as fractions S - write decimal numbers as fractions S - write decimal and decimal equivalentsK - how fractions relate to division K - how to use short division to a decimal answerrecognise and write decimal equivalents to 1/4; 1/2; 1/4.K - understand how to recognise and write decimal equivalents to 1/4; 1/2; 1/4.K - place value of numbers to 3 decimal places K - how to use short division to a decimal raction equivalents S - short division to a decimal answerK - understand value of decimal pointsK - understand value of decimal pointsK - place value of numbers to 3 decimal places K - how thousandths relate to tenths and relate to tenths and <br< td=""><td></td><td></td><td>•</td><td></td><td></td><td></td></br<>			•			
group of objects into a given amountK - how to read tenths and hundredths when written as fractionsdecimal numbers as fraction (e.g. 0.71 = $\frac{1}{1}$ , $\frac{1}{100}$ )calculate decimal fraction (e.g. 0.71 = $\frac{1}{100}$ )calculate decimal fraction (e.g. 0.375) for a simple fraction (e.g. $\frac{1}{100}$ )calculate decimal fraction (e.g. 0.375) for a simple fraction (e.g. $\frac{1}{100}$ )calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{1}{100}$ )calculate decimal fractions (e.g. 0.375) for a simple fraction (e.g. $\frac{1}{100}$ )6- moderstand the link between 1/10 and 0.01- moderstand the link between 1/10 and numbers as fractions s - write decimal numbers as fractions fraction with division S - write decimal numbers as fractions to 1/1, $\frac{1}{1}$ , $\frac{1}{2}$ , $\frac{3}{4}$ decimal equivalents fraction with division S - calculate decimal equivalents7- moderstand the link decimal equivalents to 1/1, $\frac{1}{1}$ , $\frac{1}{2}$ , $\frac{3}{4}$ K - place value of numbers to 3 decimal places decimal places-				•		
given amount S - recognise the equivalence of 2/4 and $\frac{1}{5}$			denominators	-		
S - recognise the equivalence of 2/4 and $\frac{1}{2}$ written as fractions K - understand the link between 1/10 and 0.01 S - recognise and write decimal equivalents of any number of tenths or hundredths $n_{1/200}$ (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{2}$ K - place value of decimals equivalents of any number of tenths or hundredthsK - place value of decimal numbers as fractions S - write decimal numbers as fractions S - associate a fraction equivalents S - associate a fraction equivalents S - short division to a decimal answerK - understand how to read $\frac{1}{2}, \frac{1}{2}, \frac{1}{2$						
$\frac{1}{2} = \begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 2 \\ 1 & 1 & 2 & 2 \\ $		-				-
$\frac{1}{2} = \begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 2 \\ 1 & 1 & 2 & 2 \\ $		-			<sup>/1</sup> / <sub>100</sub> )	
$ \begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 &$		· ·			100	
$ \begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 &$		1/2			K – place value of	`/ ֶ)
0.01       S - read decimal       K - how fractions         S - recognise and write decimal equivalents of any number of tenths or hundredths       S - read decimal numbers as fractions       K - how to use short         recognise and write decimal equivalents to <sup>1</sup> / <sub>4</sub> ; <sup>1</sup> / <sub>2</sub> ; <sup>3</sup> / <sub>4</sub> Frecognise and write decimal equivalents to <sup>1</sup> / <sub>4</sub> ; <sup>1</sup> / <sub>2</sub> ; <sup>3</sup> / <sub>4</sub> S - read decimal numbers as fractions       K - how to use short         K - how to use short       Housandths and fraction with division       S - associate a thousandths and fraction with division       S - associate a fraction with division         K - understand how to read ¼, ½ and ¾       K - place value of numbers to 3 decimal places       Fraction and use equivalents       S - short division to a decimal answer         K - understand value of decimal places       K - how thousandths between simple fractions, decimals       Fractions, decimals				-		0
<ul> <li>S - recognise and write decimal equivalents of any number of tenths or hundredths</li> <li>recognise and use</li> <li>S - associate a fraction with division to a decimal answer</li> <li>S - associate a fraction with division to a decimal equivalents to <sup>1</sup>/<sub>4</sub>; <sup>1</sup>/<sub>2</sub>; <sup>3</sup>/<sub>4</sub></li> <li>K - understand how to read ¼, ½ and ¾</li> <li>K - understand how to read ¼, ½ and ¾</li> <li>K - understand how to decimal places</li> <li>K - understand how to decimal places</li> <li>K - understand how to decimal places</li> <li>K - understand value of decimal places</li> <li>K - how thousandths and fraction equivalents</li> <li>K - understand how to read ¼, ½ and ¾</li> <li>K - how thousandths relate to tenths and fraction and blaces</li> <li>K - how thousandths</li> </ul>						K – how fractions
Write decimal equivalents of any number of tenths or hundredths       S - write decimal numbers as fractions       K - how to use short division to a decimal answer         recognise and use thousandths and relate them to to 1/4; 1/2; 3/4       S - write decimal numbers as fractions       S - associate a fraction with division         K - understand how to read %, % and %       K - understand how to read %, % and %       K - place value of numbers to 3 decimal places       Frecall and use equivalents         K - understand value of decimals up to 2 decimal points       K - how thousandths relate to tenths and       Frecall and use equivalents				0		relate to division
number of tenths or hundredths recognise and write decimal equivalents to <sup>1</sup> / <sub>4</sub> ; <sup>1</sup> / <sub>2</sub> ; <sup>3</sup> / <sub>4</sub> K - understand how to read %, ½ and % K - understand value of decimal places K - how thousandths to 2 decimal places K - how thousandths						K – how to use short
hundredths       answer         hundredths       recognise and use       S – associate a         recognise and write       fraction with division       relate them to       S – calculate decimal         recognise and write       decimal equivalents       fraction equivalents       fraction equivalents         to <sup>1</sup> /4; <sup>1</sup> /2; <sup>3</sup> /4       s – short division to a       decimal answer         K – understand how to       K – place value of       numbers to 3         recall and use       equivalents       equivalences         K - understand value of       decimal places       equivalences         between simple       fractions, decimals       between simple         decimal points       relate to tenths and       fractions, decimals					numbers as fractions	division to a decimal
Image: second						answer
recognise and write decimal equivalents to 1/2; 1/2; 3/4thousandths and relate them to tenths, hundredths and decimal equivalentsfraction with division S – calculate decimal fraction equivalents S – short division to a decimal answerK – understand how to read ¼, ½ and ¾ K - understand value of decimal places K – how thousandths relate to tenths andfraction with division S – calculate decimal fraction equivalents S – short division to a decimal answer				hundredths	recognise and use	S – associate a
recognise and write decimal equivalents to 1/4; 1/2; 3/4       tenths, hundredths and decimal equivalents       fraction equivalents         K - understand how to read ¼, ½ and ¾       K - place value of numbers to 3       recall and use         K - understand value of decimals up to 2       decimal places       equivalents         decimal points       relate to tenths and       between simple					•	fraction with division
decimal equivalents to $1/4$ ; $1/2$ ; $3/4$ tenths, nundredths and decimal equivalentsfraction equivalents S - short division to a decimal answerK - understand how to read ¼, ½ and ¾K - place value of numbers to 3recall and useK - understand value of decimals up to 2decimal placesequivalencesbetween simple decimal pointsfractions, decimals					relate them to	S – calculate decimal
decimal equivalents to $\frac{1}{4}; \frac{1}{2}; \frac{3}{4}$ and decimal equivalentsS - short division to a decimal answerK - understand how to read $\frac{1}{4}, \frac{1}{2}$ and $\frac{3}{4}$ K - place value of numbers to 3recall and useK - understand value of decimals up to 2decimal placesequivalencesdecimal pointsrelate to tenths andfractions, decimals				-	tenths, hundredths	fraction equivalents
K - understand how to read ¼, ½ and ¾       K - place value of numbers to 3       recall and use         K - understand value of decimals up to 2       decimal places       equivalences         between simple decimal points       relate to tenths and       fractions, decimals				•	•	
K - understand how to read ¼, ½ and ¾       K - place value of numbers to 3       recall and use         K - understand value of decimals up to 2       decimal places       equivalences         between simple decimal points       relate to tenths and       fractions, decimals				to '/_; '/_; '/_	equivalents	decimal answer
read ¼, ½ and ¾ numbers to 3 recall and use K-understand value of decimals up to 2 K – how thousandths decimal points relate to tenths and fractions, decimals						
read ¼, ½ and ¾       numbers to 3       recall and use         recall and use       recall and use       recall and use         recall and use       recall and use       recall and use         recall and use       recall and use       recall and use         recall and use       recall and use       recall and use         recall and use       recall and use       recall and use         recall and use       recall and use       recall and use         recall and use       recall and use       recall and use         recall and use       recall and use       recall and use         recall and use       recall and use       recall and use         recall and use       recall and use       recall and use         recall and use       recall and use       recall and use         recall and use       recall and use       recall and use         recall and use       recall and use       recall and use         recall and use       recall and use       recall and use         recall and use       recall and use       recall and use         recall and use       recall and use       recall and use         recall and use       recall and use       recall and use         recall and use       recall and use				K – understand how to	K – place value of	
K-understand value of       decimal places       equivalences         decimals up to 2       K – how thousandths       between simple         decimal points       relate to tenths and       fractions, decimals					numbers to 3	recall and use
decimals up to 2     K – how thousandths     between simple       decimal points     relate to tenths and     fractions, decimals					decimal places	equivalences
decimal points relate to tenths and fractions, decimals					K – how thousandths	between simple
hundredths and percentages,				-	relate to tenths and	fractions, decimals
					hundredths	and percentages,





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		S – recongise decimal	K – decimal	including in different
		equivalents to ¼, ½	equivalents to	contexts.
		and ¾.	tenths, hundredths	
		S – write decimal	and how they relate	K – how to read and
		equivalents to ¼, ½	to thousandths	understand what
		and ¾.	S – recognise	fractions, decimals
			thousandths	and percentages are
			S – use thousandths	representing.
			and relate them to	K – different contexts
			tenths, hundredths	where fractions,
			and decimal	decimals and
			equivalents	percentages could be
				used and
			recognise the per	interchanged.
			cent symbol (%) and	K – understand how
			understand that per	fractions, decimals
			cent relates to	and percentages can
			"number of parts	be equivalent.
			per hundred", and	S – remembering
			write percentages as	equivalences
			a fraction with	between simple
			denominator 100 as	fractions, decimals
			a decimal fraction	and percentages.
				S – Use equivalences
			K - 100/100 = 100%	between simple
			K - % relates to	fractions, decimals
			'number of parts per	and percentages
			hundred'	correctly.
			K 1/100 = 1 out of	S- Apply this
			100	knowledge in context.
			S – write	
			percentage as a	
			fraction with the	
			denominator 100.	



Addition and subtraction of fractions



			No CITAL
add and subtract	add and subtract	add and subtract	add and subtract
fractions with the	fractions with the	fractions with the	fractions with
same denominator	same denominator	same denominator	different
within one whole (e.g.		and multiples of the	denominators and
$\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$	K – the numerator can	same number	mixed numbers,
7 7 7	add to more than the		using the
	denominator	K – recognise	concept of equivalent
K – adding and	K – that if the	equivalent fractions	fractions
subtracting mentally K – understand the	numerator is bigger	K - simplify	K – how to find
denominator shows	than the denominator	fractions.	equivalent fractions
	you have more than a	S – add and subtract	
how many the whole	whole.	fractions with	S- — add fractions
is split into. K – when adding and	S – add and	multiples of the	with different
subtracting fractions	subtract fractions	same number.	denominators and
why the denominator	with the same		mixed numbers using
does not change	denominator.	recognise mixed	the concept of
S- add and subtract		numbers and	equivalent fractions.
fractions with the		improper fractions	S –and subtract
same denominator		and convert from	fractions with
within one whole		one form to the	different
		other and write	denominators and
		mathematical	mixed numbers using
		statements > 1 as a	the concept of
		mixed number (e.g.	
		$\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = \frac{1}{5}$	equivalent fractions.
		K – mixed number	S – add and subtract
		fractions involves a	fractions with mixed
		whole number and	numbers
		fraction	S -recognising
		K – improper fraction	when finding
		is where the	equivalent
		numerator is larger	fractions is
		than the	appropriate in
		denominator.	order to add and
		K - how mixed	subtract fractions
		number and	





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			<pre>improper fractions can be represented in a diagram. S- recognise mixed number and improper fractions. S- convert from one form to another S - write mathematical statements &gt; 1 as a mixed number.</pre>	
Multiplication and division of fractions			<pre>multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</pre> K - multiplication facts to 12 x12 K - multiply = lots of K - why the denominator does not change K - the X symbol can be read as 'of' when multiplying fractions by a whole number S -explain and show how multiplying proper fractions by a whole number is the	multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $1/_4 \times 1/_2 = 1/_8$ ) K - how to simplify fractions K - $1/_4 \times 1/_2 = 1/_8$ is the same as $1/_2$ and explain using diagrams S - multiplying simple pairs of fractions multiply one-digit numbers with up to two decimal places by whole numbers K - partitioning numbers





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				same as finding a fraction of an amount S- multiply mixed number fractions by a whole number S – use materials and diagrams to explain how to multiply proper and mixed number fractions by whole numbers is the same as saying 'lots of' and that the denominator does not change. Eg 2 lots of 1/2	K – place value up to 2 decimal places S - multiplying one-digit numbers with up to two decimal places by whole numbers. divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2$ $= \frac{1}{6}$ ) K – how to represent dividing fractions in a diagram S – dividing proper fractions by whole
Multiplication and division of decimals			find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths K – place value up to 2 decimal places K – why 10 lots of 10 = 100		numbers multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places K – place value up to 3 decimal places K – how to use a place value grid to represent multiplying and dividing by 10,100 and 1000





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			S – dividing a 1 or 2	K – why adding a O
			digit number by 10	doesn't work when
			and 100	multiplying a decimal
			S – identifying the	number
			value of the digits	S – multiplying
			in the answer	and dividing
				numbers by
				10,100 and 1000
				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
				As above
				associate a fraction
				with division and
				calculate decimal
				fraction equivalents
				(e.g. 0.375) for a simple fraction
				(e.g. <sup>3</sup> / <sub>8</sub> )
				(c.g. /8)
				K – 1/2 can be
				expressed as 1
				divided by $2 = 0.5$
				K – common fraction
				and decimal
				equivalents





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						S – calculating decimal fraction equivalents. use written division
						methods in cases where the answer has up to two decimal places
						K – how to use short division accurately when dividing into decimals
						S - use written division where the answer has up to two decimal places
Problem			solve problems that involve all of the above K – all the above S – all the above S – use pictorial or	solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions	solve problems involving numbers up to three decimal places See Year 5	
Problem Solving			abstract representations to show each step required S – to understand the steps required to solve	where the answer is a whole number K – how to calculate fractions of quantities K- how to use	solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$	
			a problem	fractions to divide quantities.	${1 \choose 4}, {1 \choose 5}, {2 \choose 5}, {4 \choose 5}$ and those with a	





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		S – choose the appropriate method to solve a problem.	S -divide a number into a given number S – multiply a number by another S- recognize the multiplication sign is the same as 'of' eg 1/3 of 12 which means 12 divided by 3 solve simple measure and money problems involving fractions and decimals to two decimal places. K – understanding of different unit of measure K – understanding of money K – place value to 2 decimal places S – solve simple measure and money	denominator of a multiple of 10 or 25. K – percentage and decimal equivalents of common fractions S – solve problems involving percentage and decimal equivalents.	
			decimal places		