

Curriculum progression

Number: Fractions, Decimals and Percentages

	Counting in Fractional steps							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
			I know how to count in tenths.	I know how to count in hundredths.				
			I know tenths arise from dividing an object into 10 equal parts.					
			I know to find a tenth I divide a number or object by 10.					

			Recognising Fractions			
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
I know to use the word half when 2 objects shared equally.	I know a half is one of two equal parts so I can identify half of an objective, shape or quantity. I know a quarter is 1 equal part of 4 so I can recognise, find and name from a length, shape, object or quantity.	I know a third is 1 equal part of 3 so I can recognise, find and name from a length, shape, object or quantity. I know a quarter is 1 equal part of 4 so I can recognise, find and name from a length, shape, object or quantity.	I know unit fractions always have a numerator of 1 so I can recognise, find and write fractions of objects. I know non-unit fractions always have a numerator of 2 or more so I can recognise, find and write fractions of objects.	I know hundredths arise when dividing an object by 100. I know hundredths can be found when dividing tenths by 10.	I know equivalent fractions have a multiplicative relationship. I know equivalent fractions so I can identify, name and write them. I know mixed numbers include a fraction and an integer.	



I know a two-quarters	I know improper
is 2 equal parts of 4 so	fractions have a
I can recognise, find	numerator larger than
and name from a	the denominator.
length, shape, object	
or quantity.	I know how to convert
	mixed number and
I know a three-	improper fractions
quarters is 2 equal	using my
parts of 4 so I can	multiplicative
recognise, find and	knowledge.
name from a length,	
shape, object or	
quantity.	

			Comparing Fractions			
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			I know how to		I know how to	I know how to use
			compare unit		compare fractions	common factors to
			fractions.		whose denominators	simply fractions using
					are all multiplies of	division.
			I know how to order		the same number.	
			unit fractions.			I know how to use
					I know how to order	common multiplies to
			I know how to		fractions whose	express fractions in
			compare fractions		denominators are all	the same
			with the same		multiplies of the same	denominator by
			denominators.		number.	multiplication or
						division.
			I know how to order			
			fractions with the			I know how to
			same denominators.			compare and order
						fractions including



			fractions greater than
			1.

			Addition and Subtraction	n of Fractions		
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			I know how to add	I know how to add	I know how to add fractions	I know how to add
			fractions with the	fractions with the same	with the same denominator.	fractions with
			same denominator	denominator.		different
			within one whole.		I know how to subtract	denominators.
				I know how to subtract	fractions with the same	
			I know how to	fractions with the same	denominator.	I know how to
			subtract fractions with	denominator.		subtract fractions
			the same		I know how to add fractions	with different
			denominator within		with denominators that are	denominators.
			one whole.		multiples of the same	
					number.	I know how to add
						fractions and mixed
					I know how to subtract	numbers using
					fractions with denominators	equivalence.
					that are multiples of the	
					same number.	I know how to
						subtract fractions
						and mixed number
						using equivalence.

	Multiplication and Division of Fractions							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
					I know how to multiply proper fractions by multiplying the numerators and multiplying the denominators.	I know how to multiply proper fractions by multiplying the numerators and		



		I know how to multiply proper fractions by integers.	multiplying the denominators.
		I know how to multiply mixed numbers by integers.	I know how to find the simplest form by diving the numerator and denominator by common factors.
			I know how to divide proper fractions by whole numbers.

			Recognis	ing Decimals		
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				I know how to write a	I know how to write decimals as	I know the place
				decimal to represent	fractions.	value for up to 3
				tenths (0.0)		decimal places
					I know thousandths are up to 3	(tenths/hundredths/
				I know how to write a	decimal places (0.000).	thousandths)
				decimal to represent		·
				hundredths (0.00)	I know the place value for up to 3	
				, ,	decimal places	
				I know the equivalents of	(tenths/hundredths/	
				tenths and hundredths	thousandths)	
				so I can write as	,	
				decimals.		
				I know decimal		
				equivalents to ¼ is 0.25,		
				I know decimal		
				equivalent to ½ is 0.5.		



	I know decimal	
	equivalents to ¾ is 0.75.	

	Comparing Decimals							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
				I know decimal place value up to 2 decimal places (tenths and hundredths) so I can compare.	I know how to compare numbers up to 3 decimal places. (Tenths, hundredths, thousandths)			

	Rounding Decimals							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
				I know to look at the tenths to round decimals with 1 decimal place to the nearest whole number.	I know to look at the tenths to round decimals with 1 decimal place to the nearest whole number. I know how to look at the hundredths to round to one decimal place.	I know how to round numbers so I can solve problems which requires answers to be rounded to specific degrees of accuracy.		

Multiplication and Division of Decimals								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
				I know dividing by 10 moves each number 1 place to the right, including decimal places.		I know multiplying numbers by 10 moves each number 1 place to the left, including decimals.		



		I know dividing by 100	I know dividing
		moves each number 2	numbers by 10
		places to the right,	moves each number
		including decimal places.	1 place to the right,
		8	including decimals.
			I know multiplying
			numbers by 100
			moves each number
			2 places to the left,
			including decimals.
			I know dividing
			numbers by 100
			moves each number
			2 places to the right,
			including decimals.
			I know multiplying
			numbers by 1000
			moves each number
			3 places to the left,
			including decimals.
			I know dividing
			numbers by 100
			moves each number
			3 places to the right,
			including decimals.
			Llong according to the
			I know how to
			multiply one-digit
			numbers with up to
			2 decimal places.



			I know how to
			represent and
			calculate up to 2
			decimal places in
			written division.

	Percentages								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
					I know the % symbol relates to a number of parts per hundred.				
					I know a percentage is written as a fraction with a denominator of 100.				
					I know a percentage can be written as a decimal out of tenths/hundredths.				



	Equivalence								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
		I know 2/4 and ½ are equivalent so I can explain why they are the same.	I know how to represent equivalent fractions using diagrams.	I know how to represent common equivalent fractions using diagrams. I know tenths and hundredths can be decimal equivalents.	I know thousandths, tenths and hundreds have decimal equivalents.	I know a fraction is division (numerator divided by denominator) to calculate the decimal equivalence.			
				I know the decimal equivalents for ¼, ½ and ¾ so I can recognise and write them.		I know equivalences between simple fractions, decimals and percentages so I can recognise them in different contexts.			



	Problem Solving								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
			I know how to solve	I know how to solve	I know how to solve	I know how to solve			
			problems including	problems involving	problems involving numbers	problems which			
			fractions.	harder fractions to	up to 3 decimal places.	require answers to			
				calculate quantities and		be rounded to			
				fractions to divide	I know how to solve	specific degrees of			
				quantities including non-	problems using percentage	accuracy.			
				unit fractions. (answer is	and decimal equivalents:				
				a whole number)	1/2 - 0.5				
					1 ⁄ ₄ - 0.25				
					1/5 – 0.2				
				I know how to solve	2/5 – 0.4				
				simple measure	4/5 – 0.8				
				problems involving					
				fractions and decimals to	I know how to solve				
				2 decimal places.	problems using fractions				
					with a denominator or				
				I know how to solve	multiple of 10 or 25.				
				simple money problems					
				involving fractions and					
				decimals to 2 decimal					
				places.					