

Primary maths

Calculation policy

Updated September 2024

Review Date: September 2026



Guidance for teachers

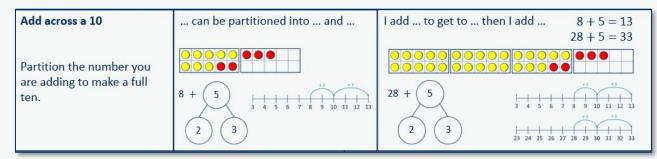


The calculation policy is divided into four sections: addition, subtraction, multiplication and division. At the start of each section, you will find an overview of the progression of skills. Calculations involving decimal numbers and fractions are included.

The calculation policy follows the same concrete, pictorial, abstract approach as our main schemes of learning. Where appropriate, sentence stems and key questions are included alongside the key representations.

Where skills are divided into more than one section across the page, there is a progression in the level of difficulty from left to right.

For example, when adding across a 10, children need to be able to add across 10 itself, before making links with related facts.



Progression of skills - Addition



Year group	Skill
Reception	Conceptually subitise to 5
	• 1 more
	Notice the composition of numbers within 10
	Combine 2 groups
	Add more
Year 1	Add together
	Add more
	Bonds within 10
	Related facts within 20
	Missing numbers

Progression of skills - Addition



Year group	Skill
Year 2	Add 1s to any number (related facts)
	Add three 1-digit numbers
	Add across a 10
	Add multiples of 10
	Add 10s to any number
	 Add two 2-digit numbers (not across a ten)
	Add two 2-digit numbers (across a ten)
	Missing numbers



Nursery	 Begin to have an understanding of numbers to 5 We recommend focusing on noticing and representing small quantities, perceptual subitising and counting. 		
Progression of skills	Key representations		
Subitise to 3 Instantly see how many.	How many do you see?		
Count how many Begin to count objects using 1-1 correspondence.	How many are there? 1 2 3 4 5 00 00 00 00 00	Count out from a larger group. E.g. Collect 3 beanbags for a game.	
Make numbers to 5 Start by showing 1, 2 and 3 using fingers.	Show me	Begin to link numerals to quantities.	
Add 1 more Through stories, songs and rhymes.	How many do I have now?		

Reception	 Have a deep understanding of numbers to 10, including the composition of each number. Subitise (recognise quantities without counting) up to 5 Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 and some number bonds to 10, including double facts. 		
Progression of skills	Key representations		
Conceptually subitise to 5 Notice the parts that make up the whole. 1 more	What do you see? How do you see it? 1 more than is		
Continue to link to stories, songs and rhymes.			
Notice the composition of numbers within 10 Link to stories, songs and rhymes.	How many? How many altogether?		



Progression of skills	Key representations	
Combine 2 groups	There are	and make
2 groups are combined to find the total.	There are altogether.	
Add more	First Then Now	I have
A quantity is increased.	A A A A A A A A A A A A A A A A A A A	I add more. Now I have
		-

Year 1 Progression of skills	 Read, write and interpret mathematical statements involving addition (+) and equals (=) signs. Represent and use number bonds within 20 Add 1-digit and 2-digit numbers to 20, including zero. Solve one-step problems that involve addition, using concrete objects and pictorial representations, and missing number problems such as 7 = +2 Key representations 		
Add together (aggregation) 2 quantities are combined to find the total.	There are There are There are altogether.	is a part. is a part. is the whole.	plus is equal to is equal to + 4 + 2 = 6 2 + 4 = 6 6 = 4 + 2 6 = 2 + 4
Add more (augmentation) A quantity is increased.	First Then Now	I start at I jump on I land on $1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \ 10$ $+1 \ +1 \ +1 \ +1 \ +1 \ +1 \ +1 \ +1 \$	plus is equal to is equal to + 4 + 2 = 6 2 + 4 = 6 6 = 4 + 2 6 = 2 + 4

White Rose

Progression of skills	Key representations		
Bonds within 10 Include bonds for each number within 10	is made of and and make	can be partitioned into and 6	plus is equal to 6 + 0 = 6 5 + 1 = 6 4 + 2 = 6
Encourage children to notice patterns.			3 + 3 = 6 2 + 4 = 6 1 + 5 = 6 0 + 6 = 6
Related facts within 20 Make links to known facts.	I know that and = so and =	more than is so more than is $\stackrel{+1}{0}$ 1 2 3 4 5 6 7 8 9 10 $\stackrel{+1}{10}$ 11 12 13 14 15 16 17 18 19 20	What patterns do you notice? 5 + 2 = 7 15 + 2 = 17 7 = 5 + 2 17 = 15 + 2
Missing numbers Make links to known facts.	How many more do you need to make?	If is the whole and is a part, the other part must be	plus is equal to $2 + \square = 6$ $6 = 2 + \square$ $0 \ 1 \ (2) \ 3 \ 4 \ 5 \ (6) \ 7 \ 8 \ 9 \ 10$

Year 2	 Recall and use addition facts to 20 fluently, and derive and use related facts up to 100 Add numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and 1s a two-digit number and 10s 2 two-digit numbers adding 3 one-digit numbers Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. 		
Progression of skills	Key representations		
Add ones to any number (related facts) Make links to known facts.	I know that and = so and =	more than is so more than is $0 \ 1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \ 10$ $+1 \ +1 \ +1 \ +1 \ +1 \ +1 \ +1 \ +1 \$	What do you notice? Can you continue the pattern? 5+2=7 15+2=17 25+2=27
Add three 1-digit numbers Prompt children to understand that addition can be done in any order and to make links to known facts.	$ \begin{array}{c} \dots \text{ and } \dots \text{ are a bond to 10} \\ 10 + \dots = \dots \\ \hline \\$	Double + = $ \begin{array}{c} ? \\ 4 & 3 & 3 \end{array} $ $ \begin{array}{c} 3 & 4 & 3 \end{array} $	What do you notice? Which addition is the easiest to calculate? 8+9+1= 8+1+9= 9+1+8=

White Rose

Progression of skills	Key representations				
Add across a 10	can be partitioned into and		I add to get to th	en I add	8 + 5 = 13 28 + 5 = 33
Partition the number being added to make a full ten.					
	8 + 5	+ 3	28 + 5	3 4 5 6 7	+2 +3 8 9 10 11 12 13 +2 +3
	$\begin{pmatrix} 2 \\ \end{pmatrix} \begin{pmatrix} 3 \\ \end{pmatrix}$		$\begin{pmatrix} 2 \\ \end{pmatrix} \begin{pmatrix} 3 \\ \end{pmatrix}$	23 24 25 26 27	28 29 30 31 32 33
Add multiples of 10	ones + ones = ones so tens + tens = tens	-	t is the same? t is different?	2	20
Make links to known facts within ten.	3 + 2 = 5 30 + 20 = 50	-+ 0 1 $ -+ $ 0 10	+2 2 3 4 5 6 7 8 9 +2 20 30 40 50 60 70 80 9	3 0 10 2 0 100 20	30 7 30
Add 10s to any number	\dots tens + \dots tens = \dots tens		dd I need to add 10	I know that .	
Make links to known facts.	tens and ones =	41	2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 18 19 20		 - 20 = 50 - 20 = 54



Progression of skills	Key representations		
Add 2-digit numbers (not across a ten) Lining up ones and tens in columns will support with later written methods.	ones + ones = ones tens + tens = tens	Tens Ones Image: State of the state of	3 ones + 1 one = 4 ones $4 tens + 2 tens = 6 tens$ $6 tens + 4 ones = 64$ 21 $?$ 43 21
Add 2-digit numbers (across a ten) Begin to exchange 10 ones for 1 ten.	There are ones, so I do/do not need to make an exchange. ones = ten and ones \overrightarrow{T} $\overrightarrow{0}$ \overrightarrow{T} $\overrightarrow{0}$ $\overrightarrow{1}$ $\overrightarrow{0}$ $\overrightarrow{1}$ $\overrightarrow{1}$ $\overrightarrow{1}$ $\cancel{45}$ $\overrightarrow{37}$ $\cancel{45}$ $\overrightarrow{37}$ $\cancel{45}$ $\overrightarrow{37}$ $\cancel{45}$ $\overrightarrow{37}$ $\cancel{45}$ $\overrightarrow{37}$ $\cancel{5}$ ones + 7 ones = 12 ones 12 ones = 1 ten and 2 ones 4 tens + 3 tens + 1 ten = 8 tens 8 tens and 2 ones = 82		45 37 $7 ones = 12 ones$ $1 ten and 2 ones$ $3 tens + 1 ten = 8 tens$
Missing numbers Solve missing number problems and use the inverse to check.	How many more do you need to make? 6 + = 10 10 - = 6	If is a whole and is a part, then is the other part. 7 $+ 3 = 7$ $7 - 3 = 3$	can be partitioned into and 10 + 8 = 12 +

Progression of skills - Subtraction



Year group	Skill
Reception	Conceptually subitise to 5
	• 1 less
	Notice the composition of numbers within 10
	Partition
	Take away
Year 1	Find a part
	Take away
	Bonds within 10
	Related facts within 20
	Missing numbers

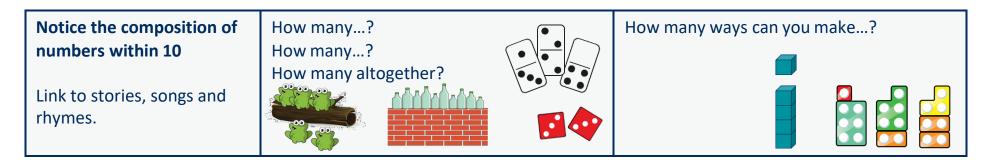
Progression of skills - Subtraction



Year group	Skill
Year 2	Subtract 1s from any number (related facts)
	Subtract across a 10
	Subtract multiples of 10
	Subtract 10s from any number
	 Subtract two 2-digit numbers (not across a ten)
	 Subtract two 2-digit numbers (across a ten)
	Missing numbers



Reception	 Have a deep understanding of number to 10, including the composition of each number. Subitise (recognise quantities without counting) up to 5 Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (and some subtraction facts) and some number bonds to 10, including double facts. 		
Progression of skills	Key representations		
Conceptually subitise to 5 Notice the parts that make up the whole.	What do you see? How do you see it?		
1 less	1 less than is		
Continue to link to stories, songs and rhymes.			





Progression of skills	Key representations	
Partition	There are altogether.	and make
Using objects, explore different ways to partition a number into 2 or more		
parts.		
Take away	First Then Now	I have
A quantity is reduced.		I take away Now I have

Year 1 Progression of skills	 Read, write and interpret mathematical statements involving subtraction (-) and equals (=) signs. Represent and use number bonds and related subtraction facts within 20 Subtract one-digit and two-digit numbers to 20, including zero. Solve one-step problems that involve subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = 9 Key representations 				
Find a part Link to number bonds and known facts. E.g. $2 + 4 = 6$ so if 6 is the whole and 4 is a part, the other part must be 2	There are in total. are How many are not ? is the whole. is a part. is a part. is a part. is a part. is a part. is a part. is a part. 6 subtract is equal to is equal to is equal to $6 - 2 = 4$ $6 - 4 = 2$ $4 = 6 - 2$ $2 = 6 - 4$				
Take away A quantity is decreased.	First Then Now	minus is equal to is equal to 6 - 2 = 4 6 - 4 = 2 4 = 6 - 2 2 = 6 - 4			

White Rose

Progression of skills	Key representations		
Bonds within 10 Focus on subtraction facts.	is made of and and make	can be partitioned into and	minus is equal to 6 — 0 = 6 6 — 1 = 5
Encourage children to notice patterns.			6 - 2 = 4 6 - 3 = 3 6 - 4 = 2 6 - 5 = 1 6 - 6 = 0
Related facts within 20	I know that minus = so minus =	less than is so less than is	What patterns do you notice?
Make links to known facts.	$\begin{array}{c c} & & & & \\ \hline & & & \\ \hline \\ \hline$	So less than is -1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	8 - 3 = 5 $18 - 3 = 15$ $5 = 8 - 3$ $15 = 18 - 3$
Missing numbers	How many do you need to subtract to make?	If is the whole and is a part, the other part must	minus is equal to
Make links to known facts.		be <u>6</u> <u>2</u> <u>7</u> <u>6</u> <u>6</u>	$6 - \boxed{2} = 2$ $2 = 6 - \boxed{2}$
			0 1 (2) 3 4 5 (6) 7 8 9 10



	 Recall and use subtraction facts to 20 fluently, and derive and use related facts up to 100 Subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and 1s a two-digit number and 10s 2 two-digit numbers Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. 			
Progression of skills	Key representations			
Subtract ones from any number (related facts) Make links to known facts.	I know that minus = so minus =	What do you notice? Can you continue the pattern? 8-3=5 18-3=15 28-3=25		
Subtract across a 10	can be partitioned into and Make links with related facts.			ated facts.
Partition the number being subtracted to bridge through a ten.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		33 - 5 $33 - 2$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

White Rose

Progression of skills	Key representations			
Subtract multiples of 10 Make links to known facts within ten.	ones $$ ones $=$ ones so tens $$ tens $=$ tens 5 - 2 = 3 50 - 20 = 30	What is the same? What is different? $5 \\ 2 \\ 5 \\ 2 \\ 5 \\ 2 \\ 5 \\ 2 \\ 5 \\ 2 \\ 5 \\ 2 \\ 5 \\ 2 \\ 5 \\ 2 \\ 5 \\ 2 \\ 5 \\ 2 \\ 5 \\ 2 \\ 5 \\ 2 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 5 \\ 7 \\ 7$		
Subtract 10s from any number Make links to known facts.	tens – tens = tens tens and ones =	Image: Normal System Image: No	I know that minus = so minus = 50 - 20 = 30 54 - 20 = 34	
		51 52 53 54 55 56 57 58 59 60		



Progression of skills	Key representations			
Subtract two 2-digit numbers (not across a ten)	$\dots \text{ ones } - \dots \text{ ones } = \dots \text{ ones}$ $\dots \text{ tens } - \dots \text{ tens } = \dots \text{ tens}$ 43 21 43 21	T 0 Image: 1 to 1 to 1 to 2 to 2	2 tens	
Subtract two 2-digit numbers (across a ten) Begin to exchange 1 ten for 10 ones.	I need to make an exchange because I do not have enough ones to subtract ones. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			
Missing numbers Solve missing number problems and use the inverse to check.	How many do you need to subtract to make? $10 - \boxed{=} = 6$ $6 + \boxed{=} = 10$	If is a whole and is a part, then is the other part. 7-3= 3 $+3=7$ 3	$\begin{array}{c} \dots \text{ can be partitioned into } \dots \\ \text{and } \dots \\ 18 - = 12 + 2 \\ \hline \bullet \bullet \bullet \bullet \bullet \\ \hline \bullet \bullet \bullet \bullet \bullet \\ \hline \bullet \bullet \bullet \bullet$	

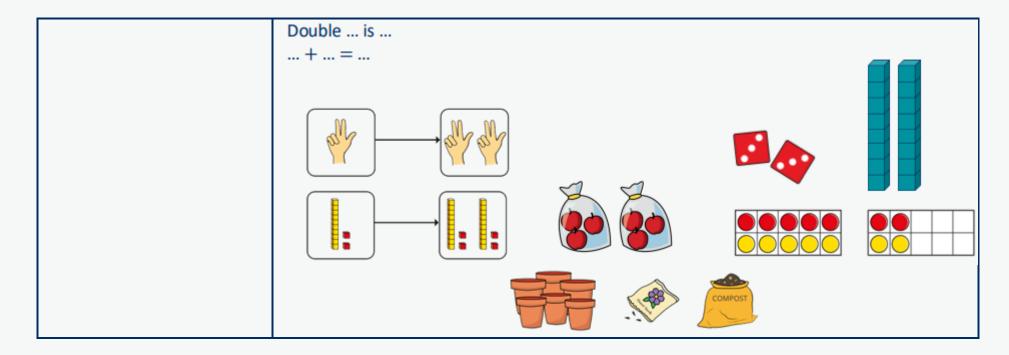
Progression of skills - Multiplication



Year group	Skill
Reception	Double to 10
	Make equal groups
Year 1	Count in 2s, 5s and 10s
	Add equal groups
	Make arrays
	Make doubles

Year 2	Link repeated addition and multiplication
	Use arrays
	• Double
	The 2 times-table
	The 10 times-table
	The 5 times-table
	Missing numbers

Reception	 Have a deep understanding of number to 10, including the composition of each number. Subitise (recognise quantities without counting) up to 5 Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 and some number bonds to 10, including double facts. Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally. 			
Progression of skills	Key representations			
Double to 10 Prompt children to notice that double means twice as many and to notice that there are two equal groups.	Double is is double is double			
Make equal groups Provide opportunities to make equal groups when tidying up or during snack time. Encourage children to check that each group has the same amount.	There are groups of There are altogether.			



Year 1	 Count in multiples of twos, fives and tens. Solve one-step problems involving multiplication, using concrete objects, pictorial representations and arrays with the support of the teacher.
Progression of skills	Key representations

Count in 2s, 5s and 10s Begin by counting objects that naturally come in 2s, 5s	There are equal groups of There are altogether.	Continue to What do yo	o colour ins ou notice?	Complete the number track/number line by counting ins.
and 10s, for example pairs of socks or fingers.		11 12 13 14 1 21 22 23 24 2 31 32 33 34 3	5 6 7 8 9 10 15 16 17 18 19 20 25 26 27 28 29 30 35 36 37 38 39 40 45 46 47 48 49 50	5 10 15 20
Add equal groups	There are groups of		What is the sa	me? What is different?
(repeated addition)	There are altogether.		2	2 + 2 + 2 =
Children should be able to			5	5 + 5 + 5 =
write a repeated addition to	10 + 10	+ 10 = 30	1	.0 + 10 + 10 =
represent equal groups and to draw pictures or use objects to represent a repeated addition.	5+5+5+	5 = 20	-	r a drawing to represent the and find how many in total.

Multiplication



Progression of skills	Key representations		
Make arrays Children use their knowledge of adding equal groups to arrange objects in columns and rows.	There are rows of There are altogether. There are columns of There are altogether.		
Make doubles Children understand that doubles are two equal groups. Children may begin to explore doubles beyond 20 using base 10	Double is $\dots + \dots = \dots$ $\swarrow + \dots = \dots$ $\swarrow + \dots = \dots$ $\square + \dots = \dots$		

Multiplication

Year 2	 Recall and use multiplication facts for the 2, 5 and 10 multiplication tables. Calculate mathematical statements for multiplication within the multiplication tables and write them using the multiplication (×) and equals (=) signs. Show that multiplication of two numbers can be done in any order (commutative). 		
Progression of skills	Key representations		
Link repeated addition and multiplication Encourage children to make the link between repeated addition and multiplication.	There are equal groups with in each group.There are altogether. 6 $3 + 3 = 6$ 3 3 $2 \times 3 = 6$ 20 $5 + 5 + 5 + 5 = 20$ 20 $5 + 5 + 5 + 5 = 20$		
Use arrays	There are rows with in each row.I can see \times and \times There are columns with in each column.		
Encourage children to see that multiplication is commutative.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
Double	Double is So double is		
Encourage children to make links with related facts.	Double 4 = 4 + 4 $Double 4 is 8$		

Multiplication

White Rose

Progression of skills	Key representations		
The 2 times-table Encourage daily counting in multiples both forwards and back. Notice that all multiples of 2 are even numbers.	$ \begin{array}{c} \dots \text{ lots of } 2 = \\ \dots \times 2 = \\ \end{array} $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
The 10 times-table Encourage daily counting in multiples both forwards and back. Notice the pattern in the numbers.	$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}\\ \end{array}\\ \end{array}\\ \end{array} \\ \begin{array}{c} \end{array}$ \left(\\ \bigg) \\ \end{array} \\ \begin{array}{c} \end{array} \left(\\ \bigg) \\ \end{array} \left(\\ \bigg) \\ \end{array} \left(\\ \bigg)	0 2 4 6 8 10 12 14 16 18 20 22 24 times 10 is equal to $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	



Progression of skills	Key representations		
The 5 times-table	lots of 5 =	times 5 is equal to	
Encourage daily counting in multiples both forwards and back. Notice the pattern in the numbers.		123456789101112131415161718192021222324252627282930313233343536373839401 \times 5 = 55 = 1 \times 5	
	والله (والله) (والله) (والله) (والله)	$2 \times 5 = 10$ $10 = 2 \times 5$ $3 \times 5 = 15$ $15 = 3 \times 5$	
	? 5 5 5 5 5	0 5 10 15 20 25 30 35 40 45 50 55 60	
Missing numbers	is equal to groups of	times is equal to	
Make links to known facts.	18 socks, how many pairs?	\square × 2 = 18	
	0 2 4 6 8 10 12 14 16 18 20	18 = 2 × 🗌	

Progression of skills - Division



Year group	Skill
Reception	Sharing
	Grouping
Year 1	Make equal groups – grouping
	Make equal groups – sharing
	Find a half
	Find a quarter

Progression of skills - Division

0	
Year group	Skill
Year 2	Divide by 2
	Divide by 10
	• Divide by 5
	Missing numbers
	Unit fractions
	Non-unit fractions

White Rose

MATHS

Division

Reception	 Have a deep understanding of number to 10, including the composition of each number. Subitise (recognise quantities without counting) up to 5 Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 and some number bonds to 10, including double facts. Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally. 		
Progression of skills	Key representations		
Sharing Provide practical activities such as sharing items during snack time. Encourage children to check whether items have been shared fairly (equally).	There are altogether. They are shared equally between groups.		
Grouping Provide opportunities to make equal groups when tidying up or during snack time. Encourage children to check that each group has the same amount.	There are groups of There are altogether.		

Division

Year 1 Progression of skills	 Solve simple one-step problems involving division, using concrete objects, pictorial representations and arrays with the support of the teacher. Recognise, find and name a half as one of two equal parts of a quantity. Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity. Key representations 			
	ney representations			
Make equal groups - grouping	There are altogether. How many groups of can you make?	Circle groups o There are gr		Take cubes. Make equal groups.
Encourage children to physically move objects into equal groups. They can also circle equal groups when using pictures.		₽₽ ₽₽	₽ ₽ ₽ ₽	There are groups of
Make equal groups – sharing	have been shared equally betweenTake cubes.There are on/in eachShare them be		etween	
Encourage children to check that the objects have been shared fairly and each group				
is the same.			12 shared bety	ween is

ivision



Progression of skills	Key representations		
Find a half Start with practical opportunities to share a quantity into 2 groups. Progress to circling half of the objects in a picture and then to finding the whole from a given half.	To find half, I need to share into 2 equal groups.	Half of is	If is half, what is the whole?
Find a quarter Start with practical opportunities to share a quantity into 4 groups. Progress to using pictures or bar models to find a quarter and then to finding the whole from a given quarter.	To find a quarter, I need to share into 4 equal groups.	A quarter of is (C) (C) (C) (C) (C) (C) (C) (C) (C) (C)	If is one quarter, what is the whole?

Division



Year 2	 Recall and use division facts for the 2, 5 and 10 multiplication tables. Calculate mathematical statements for division within the multiplication tables and write them using the division (÷) and equals (=) signs. Recognise, find, name and write fractions ¹/₃, ¹/₄, ²/₄ and ³/₄ of a quantity. 		
Progression of skills	Key representations		
Divide by 2 Encourage children to compare the grouping and sharing structures of division and to make links with times-table facts and halving.	There are equal groups of 2 $\div 2 =$ $4 \times 2 = 8$ $8 \div 2 = 4$ $4 \times 2 = 8$ $8 \div 2 = 4$ $8 \div 4 = 4$		
Divide by 10 Encourage children to compare the grouping and sharing structures of division and to make links with times-table facts.	There are equal groups of 10 $\div 10 =$ $6 \times 10 = 60$ $60 \div 10 = 6$ $7^{10} - 10 - 10 - 10 - 10$ $0 \ 10 \ 20 \ 30 \ 40 \ 50 \ 60 \ 70 \ 80 \ 90 \ 100$	shared equally between 10 is $\div 10 =$ $6 \times 10 = 60$ $60 \div 10 = 6$	

Division



Progression of skills	Key representations		
Divide by 5 Encourage children to compare the grouping and sharing structures of division and to make links with times-table facts.	There are equal groups of 5 \div 5 = $6 \times 5 = 30$ $30 \div 5 = 6$ -5 -5 -5 -5 -5	shared equally between 5 is $\div 5 =$ $6 \times 5 = 30$ $30 \div 5 = 6$ 30	
Missing numbers	0 5 10 15 20 25 30 35 40 45 50 divided by 2/5/10 is equal to		
Bar models are useful to show the link between multiplication and division.	$\begin{array}{c c} ? \\ 10 & 10 \\ \hline ? \\ 10 & 10 \\ \hline 10 & 10 \\ \hline 10 & 10 \\ \hline ? \\ \hline \end{cases}$	0 10 10 \div $10 = 10$	