



St Gabriel's C of E Primary School Calculation Policy

At St Gabriel's C of E Primary School, the aim of our calculation policy is to ensure all children receive equity of offer. Our calculation policy provides clarity on how procedural knowledge (skills) are developed across the school. Calculation procedures are taught according to this document so they can be seamlessly built upon year after year, as a child moves through school.

In all year groups, we use the 'White Rose Maths Hub' scheme of learning as a basis for our planning. White Rose follows the Concrete – Pictorial – Abstract approach to teaching maths.

- Concrete is the 'doing' stage, using concrete objects to solve problems.
- The pictorial or 'seeing' stage uses representations of objects to solve problems. This helps children make the connection between the physical object and abstract levels of understanding, which is the stage they move onto next.

• The abstract stage brings in mathematical symbols, for example +, -, x, ÷ to indicate addition, subtraction, multiplication and division.

This policy has been largely adapted from the White Rose Maths Hub Calculation Policy with further material added. Staff should use this policy alongside the additional guidelines (White Rose Maths Hub) and progression documents. It is a working document and will be revised and amended as necessary.

<u>EYFS</u>

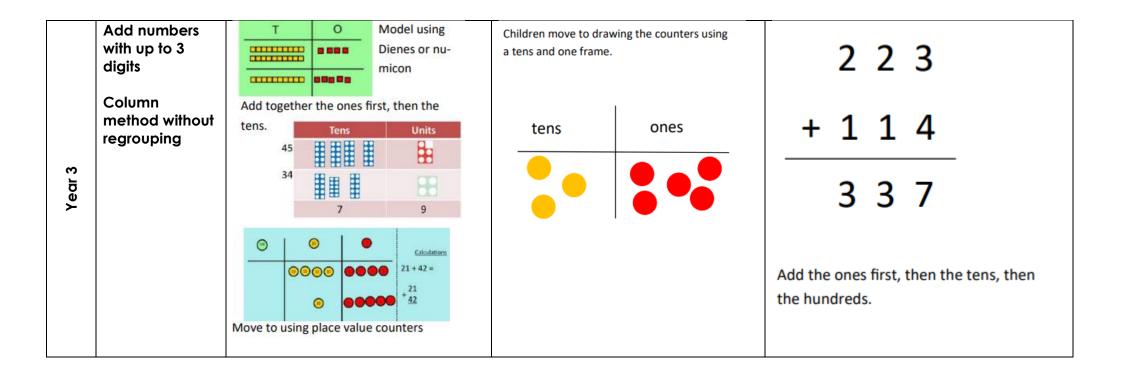
Addition Subtraction **Multiplication** Division Children use concrete Children use concrete objects to Children are encouraged to Children are encouraged to agin a sense of the number objects to make and count agin a sense of the number count and share equally into 2 system through the use of system through the use of equal groups of objects. groups. counting objects. counting concrete objects. 6 cakes shared between 2 They understand subtraction They combine objects in people, each person gets 3 practical ways and count all. as counting out. cakes. **-** - 5 They begin to count back in $6 \div 2 = 3$ ones and twos using objects, They understand addition as They will count on in twos cubes, bead strings and counting on and will count on using a bead string and number lines. in ones and twos usina number line. 🎩 🖶 💥 💑 - 2 = 😹 👼 objects, cubes, bead strings and number They understand doubling as $-\infty$ lines. repeated addition. They use They understand sharing and e.g. 2 + 2 = 4 concrete and halving as dividing by 2. They use concrete and pictorial They use concrete and pictorial representations to representations to record their They will begin to use objects to pictorial representations to record their calculations. calculations. make groups of 2 from a given record their calculations. amount. They begin to use - and =

They begin to use the operation symbols + and = They are encouraged to develop a mental picture of the number system in their heads to use for calculations.		They begin to use the operation symbols + and They are encouraged to develop a mental pictur the number system in the heads to use for calcula	e of eir			They use concrete and pictorial representations to record their calculations.	
				-	dition		
	Key Skill	Concrete	9	Pictoria	d in the second s		stract
1	Add two 1-digit numbers to 10 Combining two parts to make a whole (aggregation)	Use cubes to add two numbers together as a group or in a bar.			your purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt purt	3 + 3 5 = 3	3 = 5 2 = 5 3 + 2 2 + 3 Use the part-part-whole diagram as shown above to move into the abstract.
Year 1	Start at the bigger number and count on (augmentation)	string and	the larger number on the bead then count on to the smaller by 1 to find the answer. $\overline{5}$ $\overline{6}$ $\overline{7}$ $\overline{8}$	Use a ni	umber line to count on in ones.	5	+ 3 = 8

	Regrouping to make 10 This is an essential skill for column addition later.	6 + 5 = 11 Start with the bigger number and use the smaller number to make 10.	6+5=11 $6+4=10$ $10+1=11$ Use pictures or a number line. Regroup or partition the smaller number using the part part whole model to make 10. $9+5=14$ $+1$ $+4$ $+1$ $+4$ $+1$ $+4$ $+4$ $+1$ $+4$ $+4$ $+4$ $+1$ $+4$ $+4$ $+4$ $+4$ $+4$ $+4$ $+4$ $+4$	6 + 5 = 11
Year 2	Adding multiples of 10	Model using dienes and bead strings Use number bond facts. e.g. I know that $2 + 3 = 5$ So, 2 tens and 3 tens is 5 tens. 20 + 30 = 50	3 tens + 5 tens = tens 30 + 60 = Use representations for base ten.	20 + 30 = 50 70 = 50 + 20 $40 + \Box = 60$
*	Bar model	3 +4=7	7 + 3 = 10	23 25 ? 23 + 25 = 48

Add a two digit number and ones	17 + 5 = 22 Use a ten frame. Children explore the pattern: $17 + 5 = 122$	Use part part whole and number line to model. 17 + 5 = 22 (3) (2) 16 + 7 16 + 7 16 + 20 (3) (2) 16 + 7 (2) (16) (2) (2) (16) (2) (2) (2)	17 + 5 = 22 Explore related facts $17 + 5 = 22$ $5 + 17 = 22$ $22 - 17 = 5$ $17 - 5$ $22 - 5 = 17$
Add a two digit number and tens	25 + 10 = 35 Explore that the ones digit does not char	27 + 30 +10 +10 +10 27 37 47 57	27 + 10 = 37 27 + 20 = 47 $27 + \Box = 57$
Adding 3 single digit numbers	 4 + 7 + 6= 17 Put 4 and 6 together to make 10. Add on 7. Following on from making 10, make 10 with 2 of the digits (if possible) then add on the third digit. 	Add together three groups of objects. Draw a picture to recombine the groups to make 10.	(4 + 7 + 6) = 10 + 7 $= 17$ Combine the two numbers that make 10 and then add on the remainder.

Adding 2 two- digit numbers Column method without regrouping	Add together the ones first, then add the tens. Use the Base 10 blocks first before moving onto place value counters. 24 + 15 = $44 + 15 =$ $44 + 15 =$	After physically using the base 10 blocks and place value counters, children can draw the counters to help them to solve additions. 10s 1s	24 + 15 = 39 24 + 15 39
Adding 2 two- digit numbers Column method with regrouping	Add up the units and exchange 10 ones for 1 ten.	Using place value counters, children can draw the counters to help them to solve additions. 10s 1s 10s 1s 10s 1s 10s 1s 10s 1s 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$40 + 9$ $20 + 3$ $60 + 12 = 72$ $T O$ $4 9$ $+ 2 3$ $\frac{7 2}{1}$

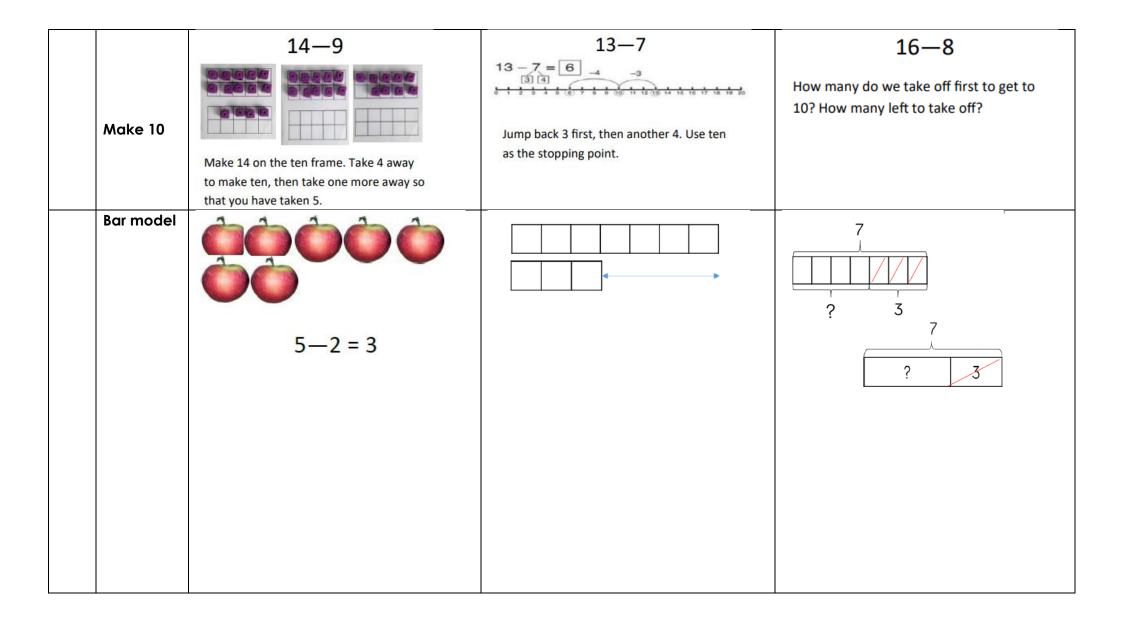


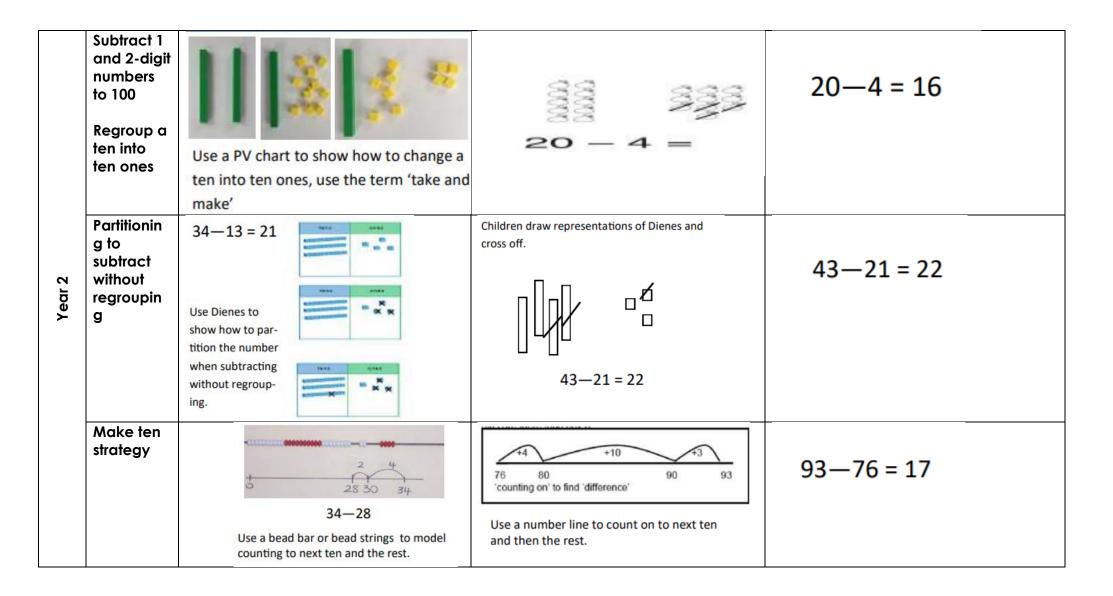
	Column	Make both	numbers on a	place value	100s	10s		1s	100 + 40 + 6
	method with	grid.				••	•		<u>500 + 20 + 7</u>
	regrouping		◙ ●	146		••	•		600 + 70 + 3 = 673
				<u>+ 527</u>	•••	•			As the children progress, they will move from the expanded to the compacted method.
		Add up the	units and exc	· hange 10 ones	100s	10s		1s	
		for 1 ten.		Ū			•		146
				146					+ <u>527</u>
				<u>+ 527</u>	•••	••			<u>673</u> 1
		and decima used to sup NB By Year	l place value o port learning.	l progress on to	represer value co		the colu further	umns and place support their	
	Add numbers	Hundreds	Tens	Ones					
	with up to 4 digits			0.0000			•		3517 + 396
Year 4			1111		•••	•••	•		3913 Continue from previous learning to
Ye		Children continue to use dienes or			7	1	5	1	exchange hundreds as well as tens. Relate to money and measures.
		pv counte	ers to add c	and exchange.	•		•		
					Draw re grid.	present	ations	using a pv	

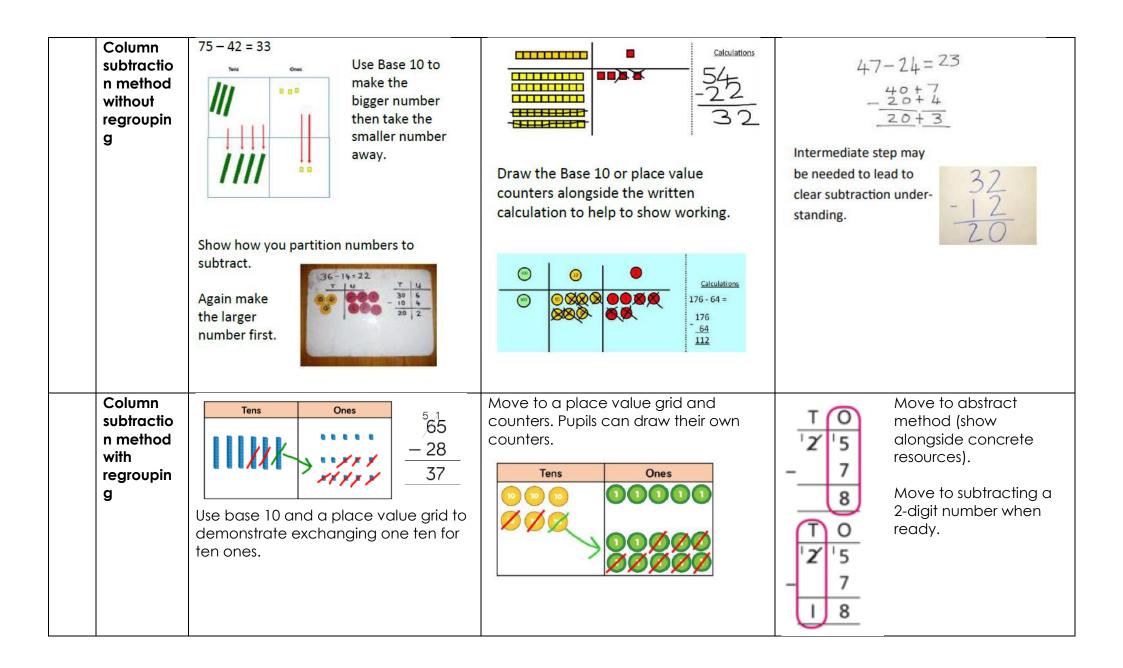
Year 5	Add numbers with more than 4 digits Add decimals with up to 3 decimal places including money	As Year 4 Introduce decimal place value counters and model exchange for addition.	Draw repressentations using a pv 3.65 2.41 2.41 7	$ \begin{array}{r} 3.65 \\ + 2.41 \\ \underline{6.06} \\ 1 \\ \hline 1 \\ \hline 1 \\ \hline 1 \\ \hline 2 \\ 3 \\ \hline 3 \\ \hline 1 \\ \hline 1 \\ \hline 1 \\ \hline 2 \\ 3 \\ \hline 1 \\ 1 \\ 1 \\ 1 \\ \hline 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$
Year ó	Add several numbers of increasing complexity Including adding money and decimals with different numbers of decimal points	As Year 5	Ās Year 5	$ \begin{array}{c} 8 & 1, 0 & 5 & 9 \\ 3 & 6 & 6 & 8 \\ 1 & 5, 3 & 0 & 1 \\ + & 2 & 0, 5 & 5 & 1 \\ 1 & 2 & 0, 5 & 7 & 9 \\ & 1 & 1 & 1 & 1 \\ \end{array} $ Insert zeros for place holders. $ \begin{array}{c} 2 & 3 & \cdot & 3 & 6 & 1 \\ 9 & \cdot & 0 & 8 & 0 \\ 5 & 9 & \cdot & 7 & 7 & 0 \\ + & 1 & \cdot & 3 & 0 & 0 \\ 9 & 3 & \cdot & 5 & 1 & 1 \\ 2 & 1 & 2 & 1 \end{array} $

			Subtraction	
	Key Skill	Concrete	Pictorial	Abstract
	Subtract two 1-digit numbers to 10/	Use physical objects, counters , cubes etc to show how objects can be taken away. 6-4 = 2		7—4 = 3
	Subtract 1 and 2-digit numbers to 20 Taking	4-2=2	15 - 3 = 12 Cross out drawn objects to show what has been taken away.	16—9 = 7
	away ones			
Year 1	Counting back	Make the larger number in your subtraction. Move the beads along your bead string as you count backwards in ones. 13 – 4 =	Count back on a number line or number track.	Put 13 in your head, count back 4. What number are you at? Use your fingers to help.
			Start at the bigger number and count back the smaller number showing the jumps on the number line.	13 - 4 =
		Use counters and move them away from the group as you take them away counting backwards as you go.	-10 -10 -10 -10 -10 -10 -10 -10 -10 -10	

Find the difference	Compare amounts and objects to find the difference.	Count on to find the difference.	Hannah has 23 sandwiches, Helen has 15 sandwiches. Find the difference between the number of sandwiches.
	3 goldfish ? Use cubes to build towers or make bars to find the difference. Use basic bar models with items to find the difference.	Draw bars to find the difference between 2 numbers. Comparison Bar Models Lisa is 13 years old. Her sister is 22 years old. Find the difference in age between them. 13 Cisa Sister 22	23 - 15 =
Represent and use number bonds and related subtractio n facts within 20. Part-part whole model	Link to addition. Use PPW model to model the inverse. If 10 is the whole and 6 is one of the arts, what s the other part? 10-6 = 4	Use pictorial representations to show the part.	Move to using numbers within the part whole model.







Year 3	Subtract numbers up to 3 digits. Column subtractio n method with regroupin g	HundredsTensOnes435-273262Use base 10 and place value counters to demonstrate exchanging. Ensure children write out their calculation alongside any concrete resources so they can see the links to the written column method.	45 29 Tens lones 29 10 20 20 20 20 20 20 20 20 20 2	$\begin{array}{r} 8 \ 36 \ -254 \ = \ 582 \\ \hline 300 \ 130 \ 6 \\ - \ 200 \ 50 \ 4 \\ \hline 500 \ 80 \ 2 \end{array} \end{array} Begin by partitioning into pv columns \\ \hline 7 \ 28 \ -582 \ = \ 146 \\ \hline 7 \ 12 \ 8 \\ \hline 5 \ 8 \ 2 \\ \hline 1 \ 4 \ 6 \end{array} \end{array} Begin by partition for move to formal method \\ \hline \end{array}$
Year 4	Subtract with up to 4 digits. Introduce decimal subtractio n through the context of money.	234 - 179 Image: Constraint of the second state of the second	Children to draw pv counters to show their understanding of exchanging (see Year 3).	2 7 5 4 - 1 5 6 2 1 1 9 2

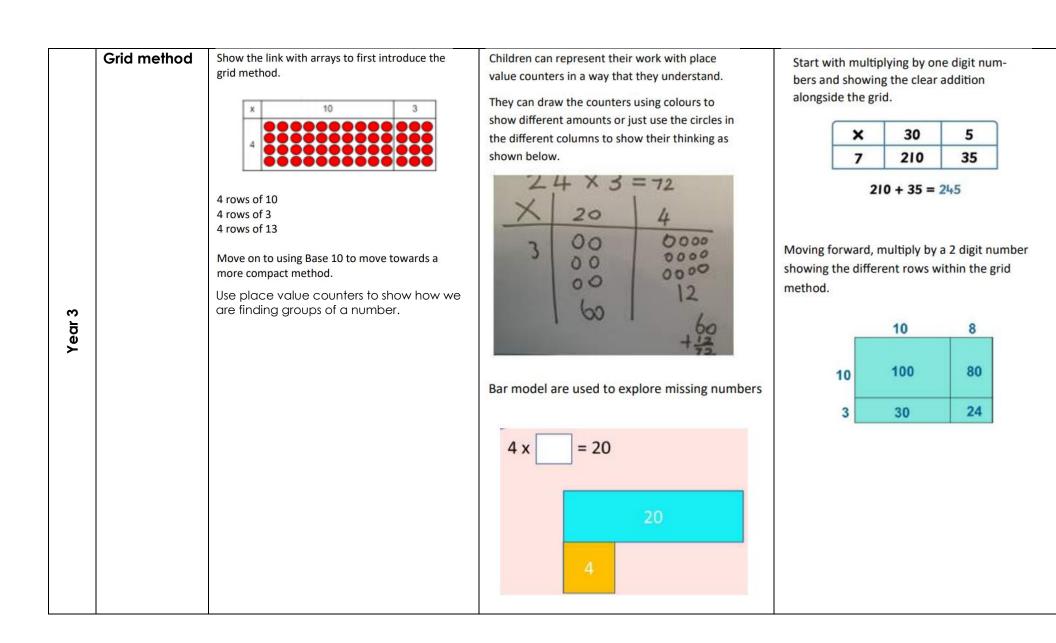
Year 5	Subtract with at least 4- digits, including money and measures. Subtract with decimal values including mixtures of integers and decimals.	As Year 4	As Year 4	$ \begin{array}{c} $
Year ó	Subtract with increasingl y large and more complex numbers (including decimal values).	As Year 5	As Year 5	"X" X 10, 6 9 9 - 89, 949 - 60, 750 "X 10'5 · 14 '1 9 kg - 36 · 080 kg - 69 · 339 kg

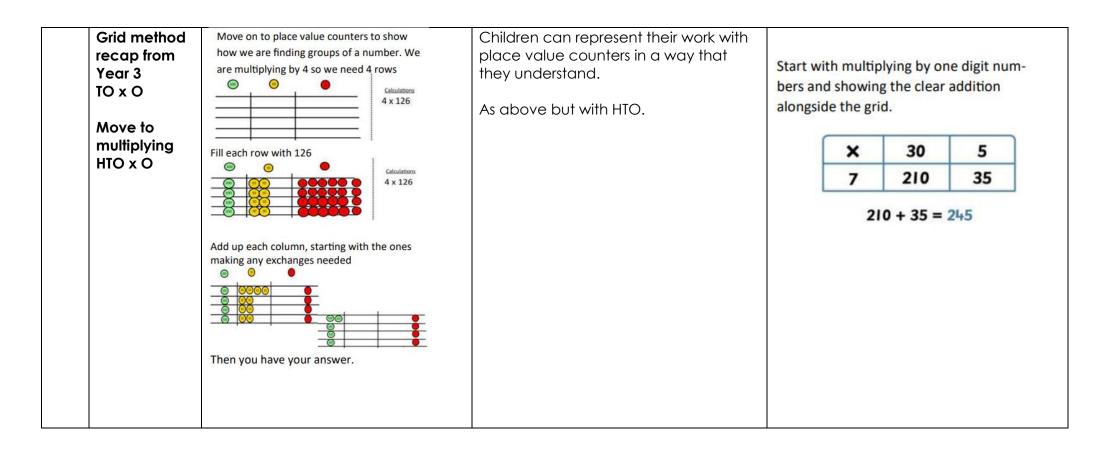
			Multiplication	
	Key Skill	Concrete	Pictorial	Abstract
	Doubling	Use practical activities using manip- ultives including cubes and Numicon to demonstrate doubling + = = + = = + = = + = =	Draw pictures to show how to double numbers Double 4 is 8	Partition a number and then double each part before recombining it back together. 16 10 10 x_2 20 + 12 = 32
Year 1	Counting in multiples	$4 \times 2 = 8$ Count the groups as children are skip counting, children may use their fin- gers as they are skip counting.	Children make representations to show counting in multiples. $2 \begin{array}{c} 2 \\ 2 \\ 4 \end{array} \begin{array}{c} 2 \\ 4 \end{array} \begin{array}{c} 2 \\ 6 \end{array} \begin{array}{c} 2 \\ 8 \end{array} \begin{array}{c} 2 \\ 10 \end{array} \begin{array}{c} 2 \end{array} \begin{array}{c} 2 \\ 10 \end{array} \begin{array}{c} 2 \\ 10 \end{array} \begin{array}{c} 2 \end{array} \begin{array}{c} 2 \\ 10 \end{array} \begin{array}{c} 2 \end{array} \begin{array}{c} 2 \\ 10 \end{array} \begin{array}{c} 2 \end{array} \begin{array}{c} 2 \\ 10 \end{array} \end{array} \begin{array}{c} 2 \end{array} \end{array} \begin{array}{c} 2 \end{array} \begin{array}{c} 2 \end{array} \begin{array}{c} 2 \end{array} \end{array} \begin{array}{c} 2 \end{array} \begin{array}{c} 2 \end{array} \begin{array}{c} 2 \end{array} \begin{array}{c} 2 \end{array} \end{array} \begin{array}{c} 2 \end{array} \end{array} \begin{array}{c} 2 \end{array} \end{array} \begin{array}{c} 2 \end{array} \begin{array}{c} 2 \end{array} \begin{array}{c} 2 \end{array} \end{array} \begin{array}{c} 2 \end{array} \begin{array}{c} 2 \end{array} \end{array} \begin{array}{c} 2 \end{array} \begin{array}{c} 2 \end{array} \begin{array}{c} 2 \end{array} \end{array} \begin{array}{c} 2 \end{array} \begin{array}{c} 2 \end{array} \end{array} \begin{array}{c} 2 \end{array} \begin{array}{c} 2 \end{array} \end{array} \end{array} \begin{array}{c} 2 \end{array} \end{array} \begin{array}{c} 2 \end{array} \end{array} \begin{array}{c} 2 \end{array} \end{array} \begin{array}{c} 2 \end{array} \end{array} \end{array} \begin{array}{c} 2 \end{array} \end{array} \begin{array}{c} 2 \end{array} $	Count in multiples of a number aloud. Write sequences with multiples of numbers. 2, 4, 6, 8, 10 5, 10, 15, 20, 25 , 30
	Making equal groups and counting the groups	Use manipulatives to create equal groups.	Use a number line or pictures to continue support in counting in multiples.	2 x 4 = 8

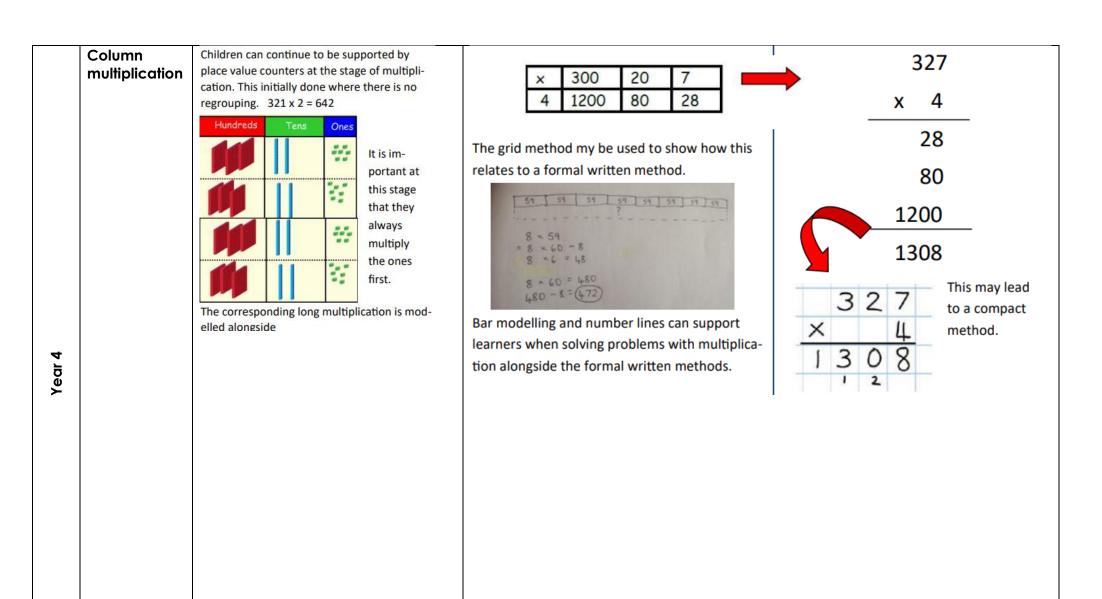
	Repeated addition	Use different objects to add equal groups.	There are 3 plates. Each plate has 2 star biscuits on. How many biscuits are there? 2 add 2 add 2 equals 6 5 + 5 + 5 = 15	Write addition sentences to describe objects and pictures. $\underbrace{\begin{array}{c} \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
	Understandin g arrays	Use objects laid out in arrays to find the a swers to 2 lots 5, 3 lots of 2 etc.	Draw representations of arrays to show understanding.	3 x 2 = 6 2 x 5 = 10
Year 2	Doubling	Model doubling using dienes and PV counters.	Draw pictures and representations to show how to double numbers	Partition a number and then double each part before recombining it back together. 16 10 10 10 10 10 10 10 10

Counting in multiples of 2, 3, 4, 5, 10 (repeated addition)	Count the groups as children are skip counting, children may use their fin- gers as they are skip counting. Use bar models. 5+5+5+5+5+5+5+5=40	Number lines, counting sticks and bar models should be used to show repre- sentation of counting in multiples. $3 \ 3 \ 3 \ 3 \ 3 \ 3 \ 3 \ 3 \ 3 \ 3 \$	Count in multiples of a number aloud. Write sequences with multiples of numbers. 0, 2, 4, 6, 8, 10 0, 3, 6, 9, 12, 15 0, 5, 10, 15, 20, 25, 30 $4 \times 3 =$
Multiplication is commutative (arrays)	Create arrays using counters and cubes and Numicon.	Use representations of arrays to show different calculations and explore commutativity.	$12 = 3 \times 4$ $12 = 4 \times 3$ Use an array to write multiplication sentences and reinforce repeated addition. 00000 $5 + 5 + 5 = 15$ $3 + 3 + 3 + 3 + 3 = 15$ $5 \times 3 = 15$ $3 \times 5 = 15$

Using the inverse This should be taught alongside division, so pupils learn how they work alongside each other.	$ \begin{array}{c} 8\\ 4\\ 2\\ \hline 8\\ \hline 8\\ \hline 8\\ \hline 9\\ \hline 8\\ \hline 9\\ \hline 8\\ \hline 9\\ \hline 8\\ \hline 9\\ \hline 9$	2 x 4 = 8 4 x 2 = 8 8 \div 2 = 4 8 \div 4 = 2 8 = 2 x 4 8 = 4 x 2 2 = 8 \div 4 4 = 8 \div 2 Show all 8 related fact family sentences.
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	Column multiplication HTO x O ThHTO x O	As above	As above	As above
Year 5 & 6	Column multiplication TO x TO	Manipulatives may still be used with the corresponding long multiplication modelled alongside. Partition one number into 10s and 1s, then add the parts. $23 \times 15 = ?$ $3 \times 15 = 45$ There are 345 bottles of milk in total. $3 \times 15 = 345$	10 8 10 100 80 3 30 24 Use an area model then add the parts.	Use column multiplication, ensuring understanding of place value at each stage. $ \begin{array}{r}3 & 4 \\ \times & 2 & 7 \\ 2 & 3_2 & 34 \times 7 \\ \hline & & & \\3 & 4 \\ \times & 2 & 7 \\ 2 & 3_2 & 34 \times 7 \\ \hline & & & \\6 & 8 & 0 \\ \hline & & & & \\3 & 4 \\ \times & 2 & 7 \\ \hline & & & & \\3 & 4 \\ \times & 2 & 7 \\ \hline & & & & \\3 & 4 \\ \times & & & & \\2 & 3_2 & & & \\3 & 4 \\ \times & & & & \\2 & 3_2 & & & \\3 & 4 \\ \times & & & & \\2 & 3_2 & & & \\3 & 4 \\ \times & & & & \\2 & 3_2 & & & \\3 & 4 \\ \times & & & & \\2 & 3_2 & & & \\3 & 4 \\ \times & & & & \\2 & 3_2 & & & \\3 & 4 \\ \times & & & & \\2 & 3_2 & & & \\3 & 4 \\ \times & & & & \\2 & 3_2 & & & \\3 & 4 \\ \end{array} $
	Column multiplication ThHTO x TO		Use the area model then add the parts. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Use column multiplication, ensuring understanding of place value at each stage. $ \begin{array}{r} $

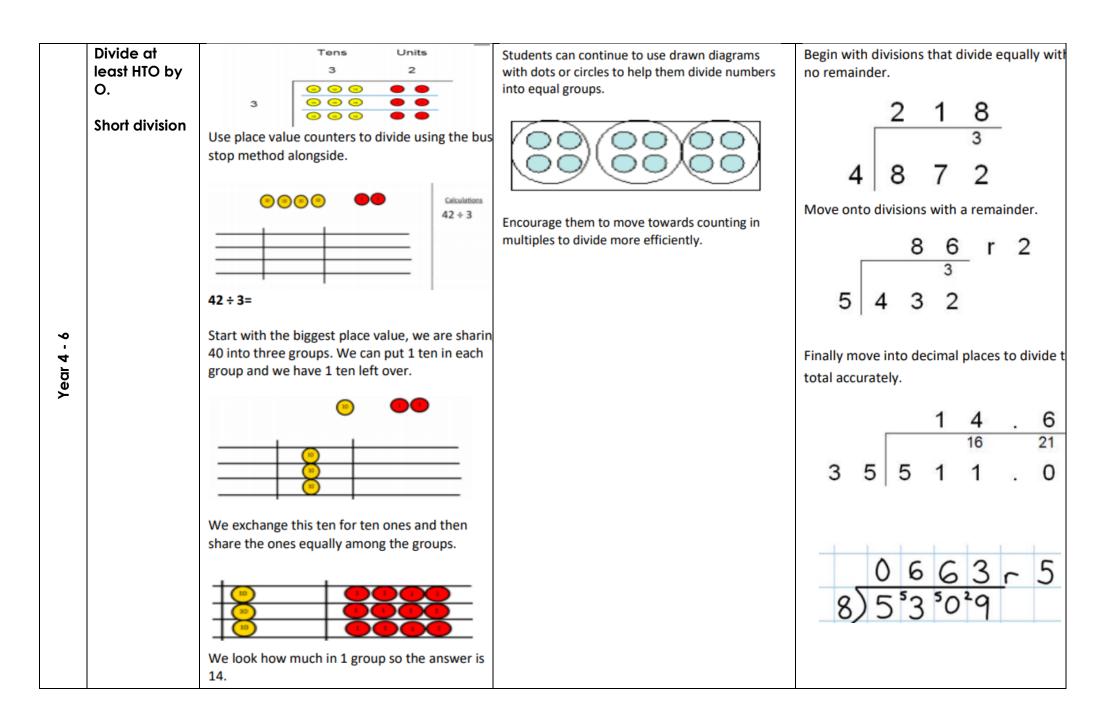
	Multiplying decimals by 10, 100 and 1000	Use place value equipment to explore a understand the exchange of 10 tenths, hundredths or 10 thousandths.	$0 \cdot 14 \times 10 = 1.4$	Understand how this exchange is represented on a place value chart. $\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
Year ó	Multiplying decimals	Explore decimal multiplications using place value equipment and in the context of measures.	Represent calculations on a place value grid. $3 \times 3 = 9$ $3 \times 0.3 = 0.9$ $T 0 1 1 0 0 0 0 0 0 0$	Use known facts to multiply decimals. $4 \times 3 = 12$ $4 \times 0.3 = 1.2$ $4 \times 0.03 = 0.12$ $20 \times 5 = 100$ $20 \times 0.05 = 1$ Find families of facts from a known multiplication. <i>I know that 18 × 4 = 72.</i> <i>This can help me work out:</i> $1.8 \times 4 = ?$ $18 \times 0.4 = ?$ $18 \times 0.4 = ?$ $18 \times 0.4 = ?$ $18 \times 0.04 = ?$ Use a place value grid to understand the effects of multiplying decimals. 2×3 0.2×3 0.2×3 0.2×3 1.2×3

Multiplying a whole number by a decimal		Using the grid method to correctly line up the place value columns for multiplying. Remembering the decimal point and place holder.
		$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Division			Division	
	Key Skill	Concrete	Pictorial	Abstract
Year 1	Division as sharing	Thave 10 cubes. Can you share them equally into two groups.	Children use pictures or shapes to share quanti- ties.	12 shared between 3 is 4.
Year 2	Division as sharing	Thave 10 cubes. Can you share them equally into two groups.	Children use pictures or shapes to share quanti- ties.	12 ÷ 3 = 4 12 sweets are shared equally between three people. How many do they get each?

Year 3	Division as grouping	Link division to multiplication by creating an array and thinking about the number sentences that can be created. Eg $15 \div 3 = 5$ $5 \times 3 = 15$ $15 \div 5 = 3$ $3 \times 5 = 15$	Draw an array and use lines to split the array into groups to make multiplication and division sentences	Find the inverse of multiplication and division sentences by creating eight linking number sentences. $7 \times 4 = 28$ $4 \times 7 = 28$ $28 \div 7 = 4$ $28 \div 4 = 7$ $28 = 7 \times 4$ $28 = 4 \times 7$ $4 = 28 \div 7$ $7 = 28 \div 4$
	Repeated addition	Use cubes, counters, objects or place value counters to aid understanding. 24 divided into groups of $6 = 4$ $96 \div 3 = 32$ $0 \oplus 0 \oplus$	Continue to use bar modelling to aid solving division problems. 20 20 \div 5 = ? 5 x ? = 20	How many groups of 6 ir 24? 24 ÷ 6 = 4

	Division using arrays.		Draw representations of arrays to show understanding.	3 x 2 = 6 2 x 5 = 10
Year 3	Division with remainders	14÷3 = Divide objects between groups and see how much is left over	Jump forward in equal jumps on a number line then see how many more you need to jump to find a remainder.	Complete written divisions and show the mainder using r. $\begin{array}{c} 29 \div 8 = 3 \text{ REMAINDER 5} \\ \uparrow \uparrow \uparrow & \uparrow \\ \text{dividend divisor quotient} & \text{remain} \end{array}$



ar 5 & 6	Divide whole numbers by 10, 100 and 1000	Use place value equipment to support unitising for division. $4,000 \div 1,000$ $4,000 \times 1$ 4,000 is 4 thousahds. $4 \times 1,000 = 4,000$ So, $4,000 \div 1,000 = 4$	Use a bar model to support dividing by unitising. $380 \div 10 = 38$ 2 2 2 2 2 2 2 2 2 2	Understand how and why the digits chan on a place value grid when dividing by 10 100 or 1,000. $\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
Year	Divide decimals by 10, 100 and 1000	Understand division by 10 using exchange. 2 ones are 20 tenths. 20 tenths divided by 10 is 2 tenths.	Represent division using exchange on a place value grid. Image: style="text-align: center;">Image: style="text-align: center;"/> Image: style="text	Understand the movement of digits on a place value grid. $\overrightarrow{0 + 10 + 10}$ $\overrightarrow{0 + 10 + 10}$ $\overrightarrow{0 + 10 + 10}$ $\overrightarrow{0 + 10}$

