

Maths Calculation Procedure

		Addition and Subtraction	
Year		Addition	Subtraction
1	Can you use the + - and = symbols? Can you add and subtract one and twodigit numbers up to 20?) 4 3 4+3=7	? 3
		The bottom of the cherry diagram are the two numbers we are combining together.	$\boxed{7-3=4}$
			When subtracting, the children can use their partitioning knowledge to partition the number into 2 groups. $7 = 3 + 4$ so $7 - 3 = 4$
		8+7=15 8+7=15	14-6=8 4 2 14-6=8
		When adding numbers that cross 10, children use their knowledge of number bonds to 10 to partition the number being added. 7 is partitioned into 2 and 5 because 8 + 2 = 10 and then we add 5 more. We use bead string and 10s frames to support this understanding.	When subtracting numbers that cross 10, children use their knowledge of partitioning to subtract to 10 and then subtract the rest. $14-6=14-4-2$. We use 10s frames to support this understanding.
2	Can you add and subtract numbers (with	Continued into Year 2 to increase fluency.	Continued into Year 2 to increase fluency.
2	concrete objects and pictorial representations) including; 2 digit and ones, 2 digit and tens, two 2 digit numbers, adding three 1 digit numbers?	Tens Ones 38 + 23 61 1	Tens Ones Tens
		Children will move from dienes (blocks of 1s and 10s) to place value counters to the column method. We use this to develop their conceptual understanding. They will practise regrouping 10 ones into 1 ten.	Children will move from dienes (blocks of 1s and 10s) to place value counters to the column method. They will practise regrouping 1 ten into 10 ones.
3	Can you use the column method to add and subtract with numbers up to 3 digits?	Hundreds Tens Ones Hundreds Tens Ones 265 + 164 429	Hundreds Tens Ones Hundreds Tens Ones 435 -273 262



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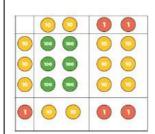
4	Can you add and subtract numbers with up to 4 digits using the column method when it is necessary?	Thousands Hundreds Tens Ones 1 3 7 8 + 2 1 4 8 3 5 2 6 1 1	Thousands Hundreds Tens Ones 11411
5	Can you add and subtract numbers with more than 4 digits using the column method, including with exchanging/regrouping? Can you add and subtract decimal numbers?	Methods for adding larger numbers the same as previous methods.	Methods for adding larger numbers the same as previous methods. Ones Tenths Hundredths 5.43 -2.7 2.73
6		Methods the same as Year 5	Methods the same as Year 5



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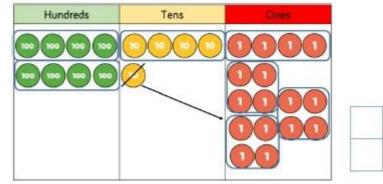
	Multiplication and Division								
Year		Multiplication	Division						
1									
2	Can you use x ÷ and = to write multiplication and division calculations?	$5+5+5+5=20$ $4\times 5=20$ $5\times 4=20$ Children will use concrete resources and then arrays to see that multiplication is about repeated addition.	Division needs to be seen as both sharing and grouping. 20 ÷ 5 = 4 20 ÷ 5 = 4 20 ÷ 5 = 4 20 ÷ 5 = Can be seen as sharing 20 into 5 groups or determining how many groups of 5 are in 20. Children will be encouraged to use their known multiplication facts to help with division.						
3	Can you write multiplication statements (using your times tables knowledge)? Can you write division statements (using your times tables knowledge)?	Children will move from dienes (blocks of 1s, 10s and 100s) to place value counters to the column method.	Remainders are also introduced in Year 3. Children will move from dienes (blocks of 1s, 10s and 100s) to place value counters to jottings. Children will use their known multiplication facts to help them to divide larger numbers. $52 \div 4 =$ Children know that $40 \div 4 = 10$ and $12 \div 4 = 3$ Using their knowledge of grouping (from year 2) the can see that there are 13 groups of 4 in 52.						
4	Can you multiply 2 and 3 digit numbers by a 1 digit number using the column method? Can you divide 3 digits numbers by 1 digit?	Hundreds Tens Ones Hundreds Tens Ones H T O 2 4 5 x 4 9 8 0 1 2	Tens Ones 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						

Can you multiply up to 4 digit by 1 or 2 digit numbers using a formal method?
Can you use long multiplication to multiply a number by a 2 digit number?
Can you divide up to a 4 digit number by a 1 digit number using a formal method? (including with remainders)



	T T			Н	Т	0
×	20	2			2	2
200000		- 	×		3	1
30	600	60			2	2
8				6	6	0
1	20	2		6	8	2

The grid method is used here as children are multiplying 2 two-digit numbers together.



	2	1	4
4	8	5	16



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6	Can you multiply 4 digit numbers by 2 digit numbers using the column method?	Methods the same as Year 5							4				
	Can you divide 4 digit numbers by 2 digit									0	4	8	9
	numbers? Can you interpret remainders as whole number remainders, decimals and fractions? Can you divide 4 digit numbers by 2 digit		7,335 ÷ 15 = 489			9	15	7	7 3	13,	¹³ 5		
	numbers using short division and interpret remainders? Can you multiply one-digit numbers with up to			15	30	45	60	75	90	105	120	135	150
	two decimal places by whole numbers?							tiples of nd 12 me			ll be use	ed. Chile	dren are no