Calculation Policy for Year 4, 5 and 6 Year 4







<u>Year 5</u>

Adding numbers with more than 4 digits including decimals

Using place value charts are key to this as well as place value counters to help with the decimals.

Addition

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+	£	7	2	55	
ŧ.	3	1	•	14	(



It is important for	MacDonalds sold £9957.68 worth of	?			
children to use the bar in this way to encourage the use of it to aid with problem solving.	hamburgers and £1238.5 worth of chicken nuggets. How much money did they take altogether?	£957.68	£1238.5		
	Subtraction				
Subtract with at least four digit numbers including two decimal places.	Subtract with decimal values, including mixtures of integers and decimals, aligning the decimal point.				
Include money, measures and decimals ensuring that children do this practically before the abstract.	$ \frac{3205}{2892} $	8	Approxima te, Calculate, Check.		
	"Х'6Я. - <u>372</u> . 6796.	0 5 5			
Using the bar to find missing digits. It is important for children to use the bar in	A whole to Lapland costs £5005 for a family of four, the Smith's have only saved £3787.75, how much money do they still need to find?				
this way to encourage the use of it to aid with problem solving		25005			
problem solving.	?	£3787.75			
	Multiplication	n			
Multiplying up to four digit numbers by two digits using long multiplication.	56 X 27		oproximate, Calculate, Check.		
Children need to be taught to approximate first, e.g. for 72 x 38, they will use rounding: 72 x 38 is approximately	392 (56×7) 1120 (56×20) 1512				
$70 \times 40 = 2800$, and use the approximation to check the	y 7 starting with the uni rs).				



<u>Year 6</u>

Addition				
Adding several numbers with up to three decimal places.	Adding several numbers with different numbers of decimal places (including money and measures): • Tenths, hundredths and thousandths should be correctly aligned, with the decimal point lined up vertically including in the answer row. Empty decimal places should be filled with zero to show			
Adding using the bar.	Jack went on holiday. His flight cost £70.50, the hotel £1295 and spending money £427.89. How much did Jack spend on his holiday? £70.50 £427.89 £1295			
Subtraction				
Subtracting with increasingly large and more complex numbers and decimal values.	*80699Very important to use in a range of contexts- measures and money. $*89949$ 60750 $*89949$ 60750 $*89949$ 9 60750 80 $*89949$ 9 360080 80 690339 89			
Using the bar for subtraction.	Chloe wants to buy a new car for £6450. She has £4885.87 in her savings account. Her Dad gives her £150 for her birthday. How much more money does she need to save? £6450 £4885.87 £150			

	Multiplication
Short and long multiplication with up to two decimal places.	$\begin{array}{c c} 3 \cdot 1 & 9 \\ $
Using the bar to help with multiplication.	If 5 friends went on holiday and each paid £579.75 what was the total cost of the holiday? £579.75
	Division
Divide at least 4 digits by both single-digit and 2-digit numbers (including decimal numbers and quantities)	Short division with remainders: Pupils should continue to use this method, but with numbers to at least 4 digits, and understand how to express remainders as fractions, decimals, whole number remainders, or rounded numbers. Real life problem solving contexts need to be the starting point, where pupils have to consider the most appropriate way to express the remainder.
Long division this is for when dividing by two digit numbers.	Try this equation; 848 ÷ 16 Division Approximation 800 ÷ 16 = 50 Start with the largest gase to will be the case to the Tora calumni det to the to the Tora calumni det to the to the Tora calumni det to the to the Tora calumni det to the to the Tora calumni det to the Tora calumni det to the to t
Using the bar to help divide.	Paul and David hire a car together at a cost of £297.50. Paul pays 6 times more than David. How much does David pay?
	£297.50 ? Paul David