Parents' Guide to Maths Year 4

Importance of using the correct method

Thank you for supporting your children with their maths. Remember, you may know other methods that are different or quicker, but it is important for the children to use the methods we use in school. We hope this guide will be helpful for you.

Glossary: Dienes – a plastic counting brick in tens, ones, hundreds
Jottings – writing and drawing any method to calculate an answer.
Place value – the value of a digit in a number eg 235 the '3' is worth '30'
Regroup – to make groups of eg 10 (used to be called 'carrying' or 'borrowing')

Column addition or subtraction with regrouping.	To add or subtract numbers with up to four digits using the formal method of column addition/ subtraction.	Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)	National Curriculum
Using counters: When there are 10 ones in the 1s column, we regroup for one ten; when there are 10 tens in the 10s column, we regroup for 1 hundred.	Hundreds Tres Obes	8 3 7 2 8 0 0 0 3 0 0 7 0	+ £
Children can draw the grid. Then regroup underneath the line.	Add the blocks or counters in the columns. Visual representation if needed by the children. 172 172 172 174 174	Can use place value in jottings to help calculations. 426 + 65 =	+ Addition + Pictorial
+ 3 -935 967	Now add numbers in the columns starting with the ones column. 3 2 6 4 4 4 3 1	+491 +491 +491 +491 +50 +50 +50 +50 +50	Abstract
Use Dienes or place value counters. Exchange a ten into ten ones. This is called 'regrouping'. 82 -34	47—32	355-30=	- S Concrete
Oraw Dienes or place value counters and cross them off when regrouping. 45 16 10 10 10 10 10 10 10 10 10	Draw representations to support understanding.	Use place value counters to subtract. Draw a number line. 200 111111111245	Subtraction or Take away-
Regroup numbers and change place value in each column when needed. 2 5 23 3 2 4 0 6	Subtract the numbers in columns. 4 6 7 7 - 2 5 1 4 4 2 6	345 - 100 = 245	/- Abstract

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National Curriculum expects children in year 3 to:

- Count in multiples of 6, 7, 9, 25 and 1000.
- Recall multiplication and division facts for multiplication tables up to 12 × 12.
- Use place value, known and derived facts to multiply and divide mentally, including: multiplying by o and 1; dividing by 1; multiplying together three numbers
- -Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, scaling problems and harder correspondence problems.

Glossary: distributive law — This allows us to distribute (break up) larger numbers to help us with calculations.

Remainder — sometimes when you divide, there's a number left over.

Regroup — to make groups of eg 10/100 (used to be called 'carrying' or 'borrowing')

Scaling - Scaling is when you are given information about something and then have to apply it to a smaller or larger quantity.

	Multiply two-digit and three- digit numbers by a one-digit number using formal written layout.	National Curriculum	
Formal column method with place value counters. 6 x 23 100s 10s 15	Calculate 25×8 . Here's one method. There are other methods to solve this. $25 \times 8 = 20 \times 8 + 5 \times 8 = 160 + \square = \square$	Concrete	
Draw the place value 100s 10s 1s 000 000	Use a part-whole model. 26×3 20×3 6×3	x Multiplication x Pictorial	
Using the column method Some children may move onto regrouping a number. T O H T O 2 3 4 X 2 1 4 0 4 H T O 4 0 4 H T O 5 0 6 X 2 1 4 0 4 H T O 6 8 2 2	Using partitioning 3×23 $3 \times 20 = 60$ 3×23 $3 \times 3 = 9$ 20 3 $60 + 9 = 69$ 23 $\frac{\times 3}{69}$	Abstract	
divide 42 by 3 divide 42 by 3	Sharing using Dienes or place value counters. 40 + 2 = 20	Concrete	
160 + 3 160 + 4 160	Bar models may also be drawn, like this: 24 24 ÷ 4 = Use a part-whole model like this:	- Division - Pictorial	7:
Some children may be ready to regroup numbers. 96 - 4 = 24 4 9 16	Start using short division the 'bus stop' method, with and then without counters.	Abstract	