Y4 Maths What they need to know...

This term, we will focus on developing both mental and written methods for addition and subtraction. The children must be able use the formal written column methods to solve problems with numbers up to 4 digits. Please see our school calculation policy for more information about this. However, they must also have a number of secure mental strategies in place. Some of these include: knowledge of near doubles (e.g. If I know 60 + 60 = 120, then I also know that 60 + 58 = 118); adding/subtracting 9 or 11 by adding/subtracting 10 and then compensating (e.g. 56 - 9 = 56 - 10 + 1 = 46 + 1 = 47); partitioning numbers mentally into hundreds, tens and ones (245 + 123 = 200 + 100 + 40 + 20 + 5 + 3 = 368); subtraction as the difference between, by starting with the smallest number and counting on in useful chunks (e.g. 283 - 154 = 100 + 6 + 10 + 10 + 3 = 129); subtraction by partitioning the second number mentally (e.g. 276 - 49 = 276 - 40 - 9 = 236 - 9 = 227).



- ★★ Explain to a grown up how to complete these two calculations (4532 + 1289; 7655 5467) using counters and a place value chart.
- ★★★ Chloe is performing a column subtraction with two 4-digit numbers. The larger number has a digit total of 35. The smaller number has a digit total of 2. What could Chloe's subtraction be? How many different options can you find? You could use cards to help you find the numbers.
- ★★ Here are three different methods children use to solve 7000—3582. Can you explain how each child has reached their answer? Whose method is the most efficient? Use the different methods to solve 4000 2831.

Sam	Lucas	Jemima
-3582 -3418	-3581 -3418	3551 300 con No.

★ The aim of the game is to get a number as close to 5,000 as possible.

Each player rolls a 1-6 die and chooses where to put the number on their grid. Once they have each filled their grid, they add up their totals to see who is the closest.

	?	?	?	?
+	?	?	?	?

★★ Using mental calculation strategies only, can you make each row and column add up to 1200?

897		
		832
	762	



Twenty divided into six

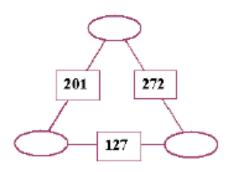
Katie had a pack of twenty cards numbered from 1-20.

She arranged the cards into six unequal piles. The numbers on the cards in each pile added to the same total. What was the total and how could this be done?

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Number Juggle

Fill in the missing numbers so that adding each pair of corner numbers gives you the number in the box between them.



My Maths

Use our school log in (Username: coleridge1, Password: success74), and then your own log in details to access activities related to our current topic on the MyMaths website. You can also have a look to see if there are some other fun games you would like to play.

Wonderful websites

Arithmetic Mathsbot

Videos (BBC)

Times tables (MathsFrame)

Countdown game (Nrich)

Arithmetic (IXL)

Whilst it can be very tempting to encourage your child to have a go at the more challenging activities, it is far better to work with them at a level they feel confident with. Significant and regular practise of even the most basic skills outlined in this document will lead to a much deeper understanding and greater proficiency, and ultimately a much more pleasant 'homework' experience for you and your child!