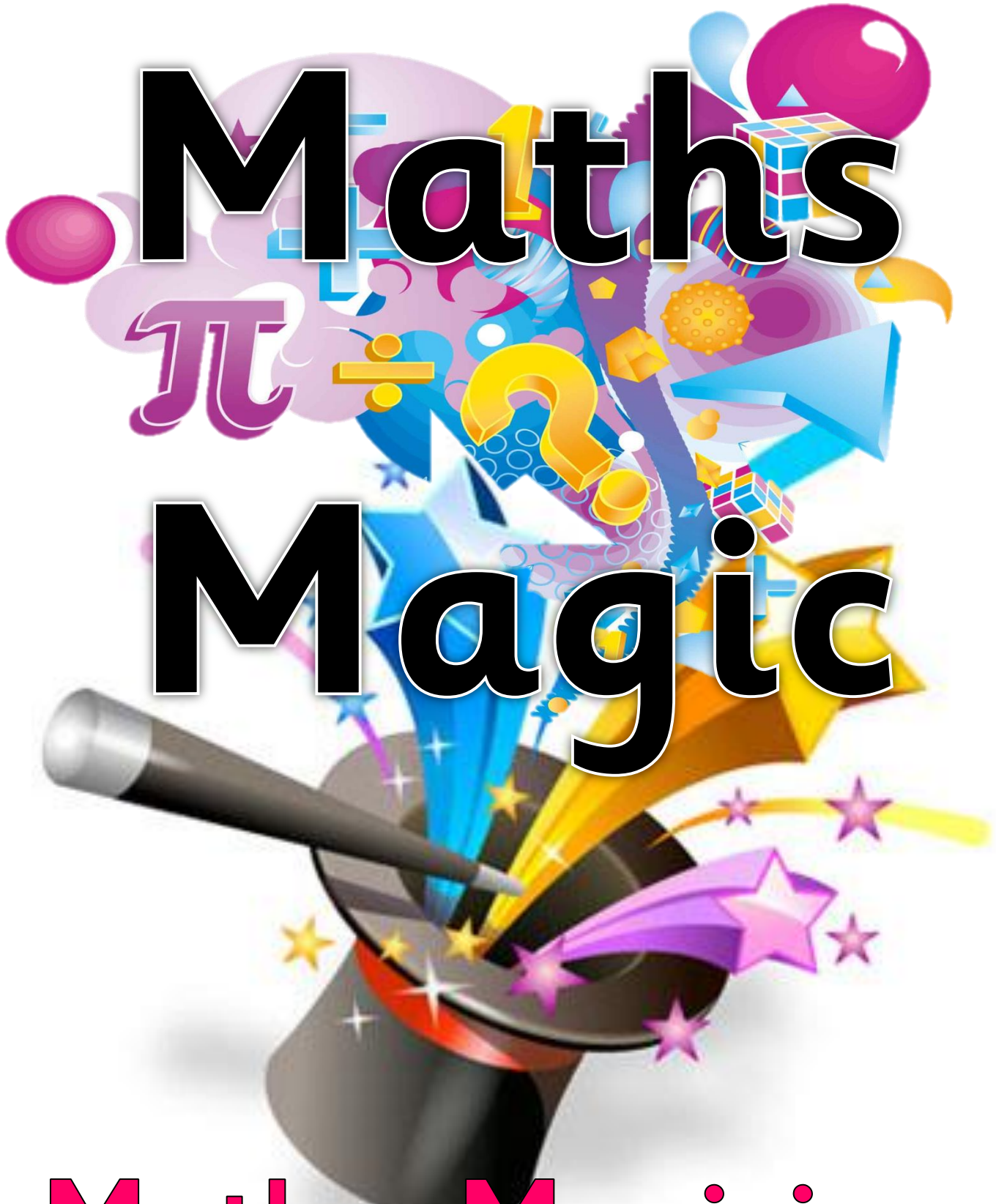
Carrant Brook Junior School

Maths Magic



Math-a-Magician

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Welcome to the Math-a-Magician stage! Here you will develop your knowledge of number bonds to 100. First you will need to know all of the sums and differences of multiples of 10, for example the sum of 30 and 70 is 100. You should practise these to find a total of 100, but also all multiples of 10 up to 100, for example the difference between 80 and 20 is 60, or the sum of 30 and 10 is 40. Once secure with number bonds in multiples of 10, you will learn off by heart all of the bonds to 100, for example 65 + 35 = 100 or 91 + 9 = 100.

Math-a-Magicians also continue to develop knowledge of multiplication and division facts. You will learn the multiplication facts for the 6, 8, 7, 9 11 and 12 times tables. It is very important to learn both facts so that you know that 7 x 4 = 28, but also that 28 ÷ 7 = 4. There are lots of ways to learn the tables, like singing, chanting or playing times tables games. You should know all of the facts off by heart and in any order, so that you could give the correct answer if asked, "What is 9 x 8?" Remember to keep practising all of the facts that you have learnt in your previous continents as well as learning your new facts. At the end of this stage you will know by heart all of the multiplication and division facts up to 12 x 12.

As a Math-a-Magician, you also develop your understanding of doubling and halving. First you will practise doubling any 2 digit number, for example double 56 is 112. You might do this by partitioning into tens and units, for example double 50 is 100, and double 6 is 12, so altogether double 56 is 112. This should be done quickly and in your head. Once secure on doubling, you will move on to be able to half any 2 digit number, for example half of 68 is 34. You will need to practise halving odd and even numbers, for example half of 73 is $36^{1}/_{2}$ or 36.5 Again this could be done by partitioning the numbers quickly in your head.

Finally you will develop your use of partitioning to be able to add and subtract 2 digit numbers in your head.

Target	1st	2nd	3rd
I know by heart all sums and differences of multiples of 10 up to 100			
I know by heart all number bonds that total 100			
I know by heart all multiplication facts for 6 up to 6 x 12 and all division facts for 6 up to 72			
I know by heart all multiplication facts for 8 up to 8 x 12 and all division facts for 8 up to 96			
I know by heart all multiplication facts for 7 up to 7 x 12 and all division facts for 7 up to 84			
I know by heart all multiplication facts for 9 up to 9 x 12 and all division facts for 9 up to 108			
I know by heart all multiplication facts for 11 up to 11 x 12 and all division facts for 11 up to 121			
I know by heart all multiplication facts for 12 up to 12 x 12 and all division facts for 12 up to 144			
I can double any 2 digit number			
I can halve any 2 digit number			
I can mentally add any two 2-digit numbers			
I can mentally subtract a 2-digit number from another 2-digit number			