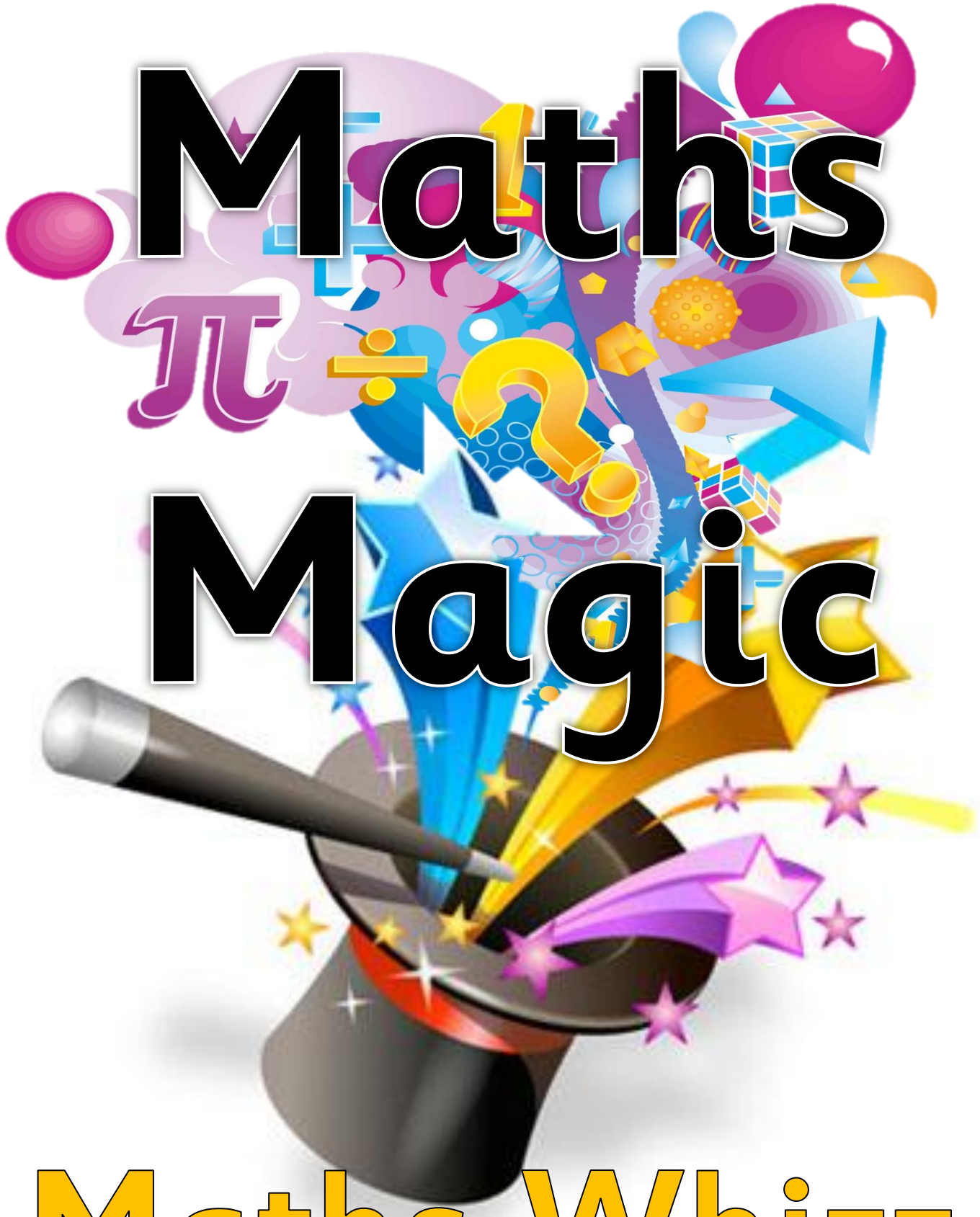
Carrant Brook Junior School

Maths Magic



Maths Whizz

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Congratulations – you have now become a Maths Whizz! Now that you are secure with your times tables facts you can now begin to use patterns and sequences to explore numbers further. On this stage you will learn about square numbers and square roots. A square number is a number multiplied by itself, for example 4 (which is 2 squared). You can adapt this knowledge to find the square numbers of multiples of 10 and 100, for example 400 is 20 squared.

As a Maths Whizz, you must also continue to develop your understanding of mathematical concepts by learning how to recognise any multiples and factors. You will also develop your knowledge of factors, to find the factors of any number up to 100, and multiples of 100.

You will also be practising your use of addition and subtraction strategies to mentally add or takeaway numbers, including numbers with 1 decimal place. You will also be able to recall equivalent amounts using measure, for example knowing that 125cm is the same as 1.25m or that 0.75 is the same as ¾ or 75%.

Finally as a Maths Whizz you use your knowledge of place value to multiply of divide any number (including decimals) by 10, 100 or 1000. For example 100 x 4.87 is 487. Or 16.8 divided by 1000 is 0.0168. You will also be able to adapt your knowledge of number bonds to include decimals, for example if 7 + 3 = 10, then 0.7 + 0.3 = 1.0, or 0.62 + 0.38 = 1.0

When you have achieved all of the targets set out at this stage, you, and your teacher, will decide on a personal target to help develop your learning.

Target	1st	2nd	3rd
I know by heart all the squares of numbers between 1 and 12			
I know by heart all squares of multiples of 10 to 100			
I know all of the prime numbers to 100			
I can recognise and recall factors of numbers up to 100 and corresponding multiples of 100			
I can multiply any number (including decimals) by 10, 100 and 1000.			
I can divide any number (including decimals) by 10, 100 and 1000			
I know the number bonds to 1 using decimals			
I can mentally add two numbers with 1 decimal place			
I can mentally subtract a number with 1 decimal place			
Solve 2-step problems involving 2-digit numbers mentally			
Convert metric unit units of measure mentally			
Mentally recall equivalent fractions, decimals and percentages			