

Top Tips for Making Progress in Maths

- Learn your times tables up to 12
- Know how to do the 4 operations method (long multiplication, division, subtraction and addition)
- Can use a scientific calculator
- Can use a protractor and ruler
- Know the angles rules (eg 180 in a triangle, 360 in a full turn)

Challenge Beyond the Classroom

- There are thousands of Maths challenge questions on the following website. I great way to challenge yourself

<p>Multiplication: Using the grid Method</p> <p>24×16</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="border-right: 1px solid black; padding: 0 5px;"></td> <td style="padding: 0 5px;">20</td> <td style="padding: 0 5px;">4</td> </tr> <tr> <td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 0 5px;">10</td> <td style="border-bottom: 1px solid black; padding: 0 5px;">200</td> <td style="border-bottom: 1px solid black; padding: 0 5px;">40</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">6</td> <td style="padding: 0 5px;">120</td> <td style="padding: 0 5px;">24</td> </tr> </table> <p>$26 \times 16 = 200 + 120 + 40 + 24$</p> <p>= 384</p>		20	4	10	200	40	6	120	24	<p>Division:</p> <p>Recognition that division is the inverse of multiplication, e.g.:</p> <p style="text-align: center;">$63 \div 9 = 7$ became $7 \times 9 = 63$</p> <p>When dividing larger number use "Bus Stop Method"</p> <p style="text-align: center;">$504 \div 8$</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">8</td> <td style="padding: 0 5px;">0</td> <td style="padding: 0 5px;">6</td> <td style="padding: 0 5px;">3</td> <td style="padding: 0 5px;">= 63</td> </tr> <tr> <td style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 0 5px;">5</td> <td style="border-bottom: 1px solid black; padding: 0 5px;">0</td> <td style="border-bottom: 1px solid black; padding: 0 5px;">2</td> <td style="border-bottom: 1px solid black; padding: 0 5px;">4</td> <td></td> </tr> </table>	8	0	6	3	= 63	5	0	2	4	
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<p>Addition:</p> <p>$3\ 456 + 975 =$</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 0 10px;">+</td> <td style="text-align: right; padding-right: 5px;">3 456</td> </tr> <tr> <td></td> <td style="text-align: right; padding-right: 5px;"><u> 975</u></td> </tr> <tr> <td></td> <td style="text-align: right; padding-right: 5px;"><u>4 431</u></td> </tr> <tr> <td></td> <td style="text-align: right; padding-right: 5px;">1 1 1</td> </tr> </table>	+	3 456		<u> 975</u>		<u>4 431</u>		1 1 1	<p>Subtraction:</p> <p>$8003 - 2569$</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 0 10px;"></td> <td style="text-align: right; padding-right: 5px;">7 9 9</td> </tr> <tr> <td></td> <td style="text-align: right; padding-right: 5px;">eg 8 0 0 13</td> </tr> <tr> <td></td> <td style="text-align: right; padding-right: 5px;"><u>2 5 6 9</u></td> </tr> <tr> <td></td> <td style="text-align: right; padding-right: 5px;"><u>5 4 3 4</u></td> </tr> </table>		7 9 9		eg 8 0 0 13		<u>2 5 6 9</u>		<u>5 4 3 4</u>			
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