

Albury Primary School
Calculation Policy
Multiplication

Year Group	Method														
R	See mental calculation policy														
1	See mental calculation policy														
2	See mental calculation policy														
3	<p>Informal written methods (mental calculation methods) to multiply 2 digit by single digit numbers. e.g. 13×3 (see mental calculation policy)</p>														
4	<p>Introduce grid method for 2 digit by 1 digit numbers. Then towards the end of the year 3 digit by 1 digit numbers.</p> <p>e.g. 43×6 $\begin{array}{r l} & 40 + 3 \\ \hline \times 6 & 240 \quad 18 \end{array}$ $240 + 18 = 258$</p> <p>e.g. 124×6 $600 + 120 + 24 = 744$</p> <p style="text-align: center;">$\begin{array}{r lll} & 100 + 20 + 4 \\ \hline \times 6 & 600 & 120 & 24 \end{array}$</p> <p>The grid method can be demonstrated using the area model.</p> <p>e.g.</p> <div style="display: flex; align-items: center; margin-left: 40px;"> <div style="margin-right: 10px;">6</div> <table border="1" style="border-collapse: collapse;"> <tr> <td style="width: 40px;"></td> <td style="width: 60px; text-align: center;">40</td> <td style="width: 60px; text-align: center;">3</td> </tr> <tr> <td style="text-align: center;">40 × 6</td> <td style="text-align: center;">3 × 6</td> <td></td> </tr> </table> </div> <p>e.g.</p> <div style="display: flex; align-items: center; margin-left: 40px;"> <div style="margin-right: 10px;">6</div> <table border="1" style="border-collapse: collapse;"> <tr> <td style="width: 60px;"></td> <td style="width: 100px; text-align: center;">100</td> <td style="width: 60px; text-align: center;">20</td> <td style="width: 60px; text-align: center;">4</td> </tr> <tr> <td style="text-align: center;">100 × 6</td> <td style="text-align: center;">20 × 6</td> <td style="text-align: center;">4 × 6</td> <td></td> </tr> </table> </div>		40	3	40 × 6	3 × 6			100	20	4	100 × 6	20 × 6	4 × 6	
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