

## Introducing column addition lesson plan

DAY	We Are Learning To (WALT):	MODEL / INTRODUCTION	INDEPENDENT WORK	PLENARY																																											
	<p>Mental:</p> <p>Main: Use column addition (with partitioning)</p>	<p>Mental:</p> <p>Main: Go through PowerPoint with the following:</p> <ul style="list-style-type: none"> <li>• Explanation of the difference between horizontal / vertical and what a column is</li> <li>• Adding 54 + 32 on a number line (emphasise how long it takes)</li> <li>• Adding 54 + 32 on a hundred square (emphasise how long it takes)</li> <li>• Adding 54 + 32 in columns (emphasise how this is quicker)</li> <li>• Go through examples of how to set out adding single digits and multiples of 10. Explain how horizontal line is like the = sign. Lower ability start work</li> <li>• Adding 2-digit and 3-digit numbers e.g.</li> </ul> <table border="1" style="margin-left: 20px;"> <tr> <td style="width: 20px;"></td><td style="width: 20px;">4</td><td style="width: 20px;">0</td><td style="width: 20px;">+</td><td style="width: 20px;">3</td> <td style="width: 20px;"></td><td style="width: 20px;">2</td><td style="width: 20px;">0</td><td style="width: 20px;">0</td><td style="width: 20px;">+</td><td style="width: 20px;">3</td><td style="width: 20px;">0</td><td style="width: 20px;">+</td><td style="width: 20px;">4</td> </tr> <tr> <td></td><td>+</td><td>2</td><td>0</td><td>+</td><td>5</td> <td></td><td>+</td><td></td><td></td><td>+</td><td>5</td><td>0</td><td>+</td><td>2</td> </tr> <tr> <td></td><td>6</td><td>0</td><td>+</td><td>8</td> <td></td><td>2</td><td>0</td><td>0</td><td>+</td><td>8</td><td>0</td><td>+</td><td>6</td> </tr> </table> <p>(With every example reinforce four main teaching points:</p> <ul style="list-style-type: none"> <li>➤ Start on the right-hand side</li> <li>➤ Put only 1 number in a square</li> <li>➤ Write the +</li> <li>➤ Put units under units and tens under tens and so on</li> </ul> <ul style="list-style-type: none"> <li>• Middle and higher ability start work</li> <li>• Model for G+T how to use column addition with number to 1 decimal place, including .0 where it is helpful e.g. 5 + 1.4 can be easier as 5.0 + 1.4</li> <li>• Final slide with reminders of the 4 key points above. Print out and enlarge / leave copies on tables of this final slide</li> </ul> <p>Remind children to leave space between calculations and not squash them together Give children a copy of the success criteria to stick at the top of their page</p>		4	0	+	3		2	0	0	+	3	0	+	4		+	2	0	+	5		+			+	5	0	+	2		6	0	+	8		2	0	0	+	8	0	+	6	<p>(At regular intervals have children stop and check their work against the success criteria)</p> <p>Lower ability – add 1-digit numbers and multiples of 10 (children who work slowly to work on sheet) Give tens sticks if needed</p> <p>Middle ability – add 2-digit numbers (no carrying)</p> <p>Higher ability – add 3-digit numbers (no carrying)</p> <p>Extension – add 4-digit numbers and numbers to 1 decimal place (no carrying)</p>	<p>Have children self-assesses their work against the success criteria</p> <p>In ability partners give children 4 questions per pair, two for each partner Children need to talk to their partner, explaining what they are doing e.g. I will put the 3 under the other 3 because they are both units, then I draw my equals line with a ruler and use my fingers to calculate the answer Children swap over and partner who spoke first now listens</p>
	4	0	+	3		2	0	0	+	3	0	+	4																																		
	+	2	0	+	5		+			+	5	0	+	2																																	
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