

Column subtraction (no borrowing) lesson plan

DAY	We Are Learning To (WALT):	MODEL / INTRODUCTION	INDEPENDENT WORK	PLENARY																														
	<p>Mental:</p> <p>Main: Use column subtraction (without borrowing)</p>	<p>Mental:</p> <p>Main: Go through PowerPoint with the following:</p> <ul style="list-style-type: none">• Revise the difference between horizontal / vertical and what a column is• Subtracting 48 - 25 in columns with partitioning and then without partitioning. Emphasise how without partitioning is quicker• Go through examples of how to set out subtracting single digits and multiples of 10. Revise how horizontal line is like the = sign. Lower ability start work• Subtracting 2-digit and 3-digit numbers e.g. <table><tr><td>1)</td><td></td><td>4</td><td>8</td><td></td><td>2)</td><td></td><td>2</td><td>8</td><td>4</td></tr><tr><td></td><td>-</td><td>2</td><td>5</td><td></td><td></td><td>-</td><td></td><td>5</td><td>2</td></tr><tr><td></td><td></td><td>2</td><td>3</td><td></td><td></td><td></td><td>2</td><td>3</td><td>2</td></tr></table> <p>(With every example reinforce four main teaching points:</p> <ul style="list-style-type: none">➤ Start on the right-hand side➤ Put only 1 number in a square➤ Write the -➤ Put units under units and tens under tens and so on <ul style="list-style-type: none">• Middle and higher ability start work• Model for G+T how to use column subtraction with number to 1 decimal place• Final slide with reminders of the 4 key points above. Print out and enlarge / leave copies on tables of this final slide <p>Remind children to leave space between calculations and not squash them together</p> <p>Give children a copy of the success criteria to stick at the top of their page</p>	1)		4	8		2)		2	8	4		-	2	5			-		5	2			2	3				2	3	2	<p>(At regular intervals have children stop and check their work against the success criteria)</p> <p>Lower ability – subtract 1-digit numbers and multiples of 10 (children who work slowly to work on sheet) Give tens sticks if needed</p> <p>Middle ability – subtract 2-digit numbers (no borrowing)</p> <p>Higher ability – subtract 3-digit numbers (no borrowing)</p> <p>Extension – subtract 4-digit numbers and numbers to 1 decimal place (no borrowing)</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</p> <p>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</p> <p>Children swap over and partner who spoke first now listens</p>
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	-	2	5			-		5	2																									
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