## Column addition and subtraction lesson plan

DAY	We Are Learning To (WALT):	MODEL / INTRODUCTION	INDEPENDENT WORK	PLENARY
	Mental:  Main: Use column addition and subtraction	Main: TA to take children who are unable to add / subtract a 1-digit number from / to a 2-digit number that requires crossing tens barriers (e.g. 48 + 4 or 42 - 4) Practice counting up and down from 100, especially focusing on crossing tens barriers Practice counting up and down from 100 in tens Calculate mentally by putting first number in head and counting on / back, using fingers to keep count Work on setting these questions out in columns and calculating them mentally  Go through PowerPoint with the following:  Revise what column and vertical mean Revise 4 key teaching points (see below)  Explanation of when the two digits in a column add up to 10 or more you need to carry a ten / hundred / thousand to the next column to the left  Explanation of how when the bottom number in a column is greater than the top number, you need to take a ten / hundred / thousand from the next column to the left  Go through examples of how to add and subtract 2-digit and 3-digit numbers e.g.	(At regular intervals have children stop and check their work against the success criteria)  Lower ability – add and subtract 1-digit numbers from 2-digit numbers (give number line if really needed)  Middle ability – add and subtract 2-digit numbers  Higher ability – add and subtract 3-digit numbers  Extension – add and subtract 4-digit numbers and numbers with decimal places	Have children self-asses their work against the success criteria In ability partners give children 1 question to do each Children need to talk to their partner, explaining what they are doing e.g. I will put the 6 under the 5 because they are both units. Then I will put the 20 under the 40 because they are both tens. Then I draw my equals line with a ruler. Then I start on the right and subtract the units first, borrowing a ten. I cross out the old tens number and write the new number in the tens, and then I subtract the tens Children swap over and partner who spoke first now listens