

Column addition (adding several numbers) lesson plan

Subject: Maths	Lesson Title: Column addition (adding several numbers)
Date:	Time Span:
Year Group: Year 3	Group Size: 30

Desired Learning Outcomes	NC PoS ref:
To be able to add in columns (adding several numbers)	

Key Language: Column, horizontal, vertical, units, tens, hundreds, thousands, tenths and carry	Use of ICT: Smartboard for introduction
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Assessment (Make reference to each section of the lesson) Intro – Children who struggled with column addition yesterday to complete their corrections. Children who were confident with column addition yesterday to work on adding several numbers in columns Main – Mark children's work as they complete it. Sit with any children who are struggling, bringing them back to the carpet if necessary. If still unsure by end of lesson sit with TA during plenary. Plenary – Can children make up their own example and assess the accuracy of their partner's example?
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Use of Other Adults TA to explain how to add several numbers to children who will work on this TA to monitor progress of children throughout lesson and support as needed TA to sit and continue working with children (of any ability) who struggled in plenary
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Anticipated Misconceptions/Difficulties Children starting on the left Children not putting numbers in the correct columns e.g. putting units under tens Children not putting only 1 number in each square and thus getting columns confused Children forgetting to write the + sign to show the operation being calculated Children forgetting to write what they carry

Resources Number line up to 50 available from http://www.sparklebox.co.uk/2576-2580/sb2579.html#.UFmg1BgQmPo (laminated and cut up) Squared paper for plenary Copies of success criteria on children's tables (not for lower ability)
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Introduction	Time
<p>Teacher to work with children who found basic column addition difficult yesterday</p> <p>TA to take children who were confident with basic column addition yesterday and model for them how to complete several examples of adding several numbers together</p> <p>Revise 5 key teaching points (see below)</p> <p>With every example reinforce 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 ➤ Putting the 1 you carry in the correct column <p>Remind children to leave space between calculations and not squash them together</p> <p>Have a copy of the success criteria to stick at the top of their page on each child's desk (except for lower ability as they do not need to think about all of the criteria)</p>	15 mins
<p>Main (including differentiated tasks)</p> <p>(At regular intervals have children stop and check their work against success criteria)</p> <p>Children who found basic column addition difficult in the previous lesson to work on this again</p> <p>Lower ability – add several 1-digit numbers (give number line if really cannot work without it)</p> <p>Middle ability – add several 2-digit numbers</p> <p>Higher ability – add several 3-digit numbers</p> <p>Extension – add several numbers with decimal places</p>	20 mins
<p>Plenary</p> <p>Have children self-asses their work against the success criteria</p> <p>In ability partners children to make up an example of their own (tell them that it needs to require them to carry)</p> <p>Children to complete they created</p> <p>Swap boards and check if agree with answers</p>	10 mins