Column addition (with carrying) lesson plan

Subject: Maths	Lesson Title: Column addition (with carrying)
Date:	Time Span:
Year Group: Year 2	Group Size: 30

Desired Learning Outcomes

To be able to add in columns (with carrying)

Key Language:	Use of ICT:
Column, horizontal, vertical, units, tens, hundreds, thousands, tenths and carry	Smartboard for introduction

Assessment (Make reference to each section of the lesson)

Intro - Level of work based on ongoing assessment

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 explain their working out to a partner, using the correct terminology e.g. column, units, tens etc?

Use of Other Adults

TA to monitor progress of children once they begin working

TA to sit and continue working with children (of any ability) who struggled in plenary

Anticipated Misconceptions/Difficulties

Children starting on the right

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 the 1 when they carry

Resources

Tens sticks and units cubes Squared paper for plenary Enlarged copy / copies for tables of final slide

Introduction								Time	
Go through PowerPoint with the following:									
Revise what column and vertical mean									
•									
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	10 units need to move next door to the tens and become 1 ten, with several								
	examples								
	 Go through examples of how to add 1-digit numbers. Lower ability start work Go through examples of how to add 2-digit and 3-digit numbers e.g. 								
•	Go through examples of how to add 2-digit and 3-digit numbers e.g. 1) 4 7 2) 2 3 9								
		_		<u> </u>	<u> </u>				
	+	2	_		+		5 2		15
		7	2		-	2 9	9 1	-	mins
	() A (: 4]-	1							
	•			exam on the				e four main teaching points:	
								square	
				the +	iun	1001	mu	540010	
					nde	r uni	ts a	nd tens under tens and so on	
	\succ	Ρι	ittin	ig the	1 y	ou c	arry	in the correct column	
•	Middle	e ar	nd k	nigher	ab	ility s	start	work	
•								umn addition with number to 1 decimal place,	
		•						e.g. 5 + 1.4 can be easier as 5 .0 + 1.	
 Final slide with reminders of the 5 key points above. Print out and enlarge / 									
leave copies on tables of this final slide									
								een calculations and not squash them together criteria to stick at the top of their page	
Main	(inclue	ding	g di	fferei	ntia	ted	task	s)	
Children who were insecure on column addition without carrying to repeat previous lesson on column addition without carrying									
(At regular intervals have children stop and check their work against the success									
criter	ia)								
Lower ability – add 1-digit numbers and multiples of 10 (children who work slowly to work on sheet) Give unit square and tens sticks if needed								20 mins	
Middle ability – add 2-digit numbers (with carrying)									
Higher ability – add 3-digit numbers (with carrying)									
Extension – add 4-digit numbers and numbers to 1 decimal place (with carrying)									
Plena	ary								1
Have children self-asses their work against the success criteria									
In ability partners give children 2 questions per pair, one for each partner									
Children need to talk to their partner, explaining what they are doing e.g. I will put the 3								10	
under the other 3 because they are both units, then I draw my equals line with a ruler								mins	
and use my fingers to calculate the answer Children swap over and partner who spoke first now listens									
Children swap over and partner who spoke first now listens								1	