Column subtraction (with borrowing) lesson plan

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

Desired Learning Outcomes

To be able to subtract in columns (with borrowing)

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

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 one they borrow / take and / or cross out the number that they took the one from and write the new number above it

Resources

Tens sticks and units cubes

Squared paper for plenary

Enlarged copy / copies for tables of final slide

Introduction	Time
 Revise what column and vertical mean Revise 4 key teaching points (see below) Explanation of how when the bottom number in a column is larger than the top number, you need to take a ten / hundred / thousand from the next column to the left, with several examples Go through examples of how to subtract 1-digit numbers. Lower ability start work Go through examples of how to subtract 2-digit and 3-digit numbers e.g. 3	15 mins
Main (including differentiated tasks) Children who were insecure on column subtraction without borrowing to repeat previous lesson on column subtraction without borrowing (At regular intervals have children stop and check their work against the success criteria) Lower ability – subtract 1-digit numbers and multiples of 10 (children who work slowly to work on sheet) Give unit square and tens sticks if needed Middle ability – subtract 2-digit numbers (with borrowing) Higher ability – subtract 3-digit numbers (with borrowing) Extension – subtract 4-digit numbers and numbers to 1 decimal place (with borrowing)	
Plenary 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 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	