Adding and subtracting multiples of 10 and 100 lesson plan

Subject: Maths	**Lesson Title:** Adding and subtracting multiples of 10 and 100
Date:	**Time Span:**
Year Group: Year 3	**Group Size:** 30

Desired Learning Outcomes	**NC PoS ref:**
To be able to add and subtract multiples of 10, 100 or 1,000	

Key Language: Units, tens, hundreds, thousands, tenths, hundredths, thousandths, add and subtract	**Use of ICT:** Smartboard for introduction

Assessment (Make reference to each section of the lesson)
Intro – TA to work with G+T children who were confident with partitioning numbers with decimal places. Level of work based for other 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 and reasoning using suitable vocabulary?

Use of Other Adults
TA to work with G+T children at the start of the lesson
TA to monitor progress of children during main part of lesson
TA to sit and continue working with children (of any ability) who struggled in plenary

Anticipated Misconceptions/Difficulties
Children not concentrating and changing the incorrect column
Children struggling with questions crossing 100 or 1,00 barriers
Children being unable to work without using ten sticks / a hundred square

Resources
Hundred squares (laminated and cut up)
Base ten materials (plastic / wooden version or paper laminated and cut up)

	Time
Introduction TA to take G+T children who were confident with partitioning numbers with decimal places to work on adding tenths, hundredths and thousandths Model how when we are adding tenths, we change the tenths, how when we are adding hundredths we change the hundredths etc Teacher with remainder of class: Go through examples of • Adding and subtracting multiples of 10 to 2-digit numbers • Adding and subtracting multiples of 100 to 3-digit numbers • Adding and subtracting multiples of 10 to 3-digit numbers • Adding and subtracting multiples of 1,000 to 4-digit numbers	10 mins
Main (including differentiated tasks) (Have hundred squares and base ten materials for children if they struggle to calculate mentally, but try to get them not to use these if possible) Lower ability – add and subtract multiples of 10 Middle ability – add and subtract multiples of 10 and 100 Higher ability – add and subtract multiples of 10, 100 and 1,000 Gifted and talented – add and subtract tenths, hundredths and thousandths Extension – make up some of their own number sentences to calculate	25 mins
Plenary In partners children to take turns to answer questions at the same level as above Each partner to take it in turns to explain their working out and to listen to the explanation Model a good answer e.g. to calculate 32 plus 20 I only need to change the tens and 30 + 20 is 52 so the answer is 52 Discuss any disagreements about answers	5 mins