



## Partitioning numbers in different ways lesson plan

DAY	We Are Learning To (WALT):	MODEL / INTRODUCTION	INDEPENDENT WORK	PLENARY
	<p><b>Mental:</b></p> <p><b>Main:</b> Partition numbers in different ways</p>	<p><b>Mental:</b></p> <p><b>Main:</b> TA to ask G + T children to partition some 4-digit numbers; if confident with this go with TA to work on partitioning numbers with a decimal place; if not stay with the rest of the class Have TA take G+T children to work on partitioning numbers with a decimal place: Show children a stick of ten:  Show children another version of it: </p> <p>Revise how each unit can be split in to tenths Give each child a unit that has been split in to tenths and have them cut it up in to ten strips. Revise how each of these is called a tenth, so a unit is made up of ten tenths Show children some examples of numbers, representing them using these units squares and tenths strips e.g. 3.2 would be 3 unit squares and 2 tenth strips, 8.9 would be 8 unit squares and 9 tenth strips etc Model how to partition numbers with one decimal place in different ways Ask the children to show you some ways of partitioning numbers with a decimal place (Teacher with remainder of class) Revise how columns in 2-digit numbers are tens and units and columns in 3-digit numbers are hundreds, tens and units Use Place Value ITP at <a href="http://www.taw.org.uk/lic/itp/place_val.html">http://www.taw.org.uk/lic/itp/place_val.html</a> (if link does not work, just Google 'Place Value ITP') to show how a number in the tens column is worth ten times as many as a number in the units column e.g. a 1 in the tens column is worth 10, whereas a 1 in the units column is worth only 1. Repeat to show how a number in the hundreds column is worth ten times as many as a number in the tens column e.g. the 1 in 100 is worth ten lots of ten Model how we can partition numbers in different ways e.g. <math>43 = 40 + 3</math> or <math>40 + 2 + 1</math> or <math>20 + 20 + 3</math> etc Repeat above model for 3 and 4-digit numbers as well</p>	<p>Lower ability – partition numbers up to 20</p> <p>Middle ability – partition 2-digit numbers</p> <p>Higher ability – partition 3-digit numbers</p> <p>G+T – partition 4-digit numbers and numbers with 1 decimal place</p> <p>Extension – make up own numbers to partition in different ways on pupil whiteboards</p>	<p>Ask children to come up with some of their own numbers and partition them <b>in more than one way</b> on their pupil whiteboards . Explain what they have done to a partner</p>