Week 1

DAY	We Are Learning To (WALT):	MODEL / INTRODUCTION	INDEPENDENT WORK	PLENARY
M	Mental: To be able to count <b>up</b> from 10 to 100 Main: Read and write numbers in words Spr001	Mental: Have children sit in rows opposite each other in pairs. Give them a number to count up from (focusing on crossing over tens boundaries). Children take it in turns to say a number Main: Teacher (with remainder of class): Open hundred square on IWB http://www.taw.org.uk/lic/itp/itps/number_grid_4_0.swf. Children to count with teacher from 11 to 20 Children to count with teacher from 11 to 20 Children to count with theildren down the tens column on the hundred square (ten, twenty etc) Emphasise the different sounds at the end of the teen numbers and tens numbers numbers e.g. thirteen and thirty. Show children names of the teen and tens with endings highlighted. Emphasise how eleven and twelve are awkward. Revise how 2-digit numbers have tens and units, writing a capital U above the units and a capital T above the tens. Revise how to read 2-digit numbers e.g. 32 by looking at the tens number first and saying it e.g. thirty, then saying the units number e.g. two Make deliberate mistakes swapping digits e.g. fourteen as 41. Ask children if this is right? (You may choose to let lower ability children get started on their independent work at this point) Revise how 3-digit numbers e.g. 654 by looking at the hundreds number first and acapital T above the tens and a capital H above the hundreds. Revise how to read 3-digit numbers e.g. 654 by looking at the hundreds number first and saying it e.g. six hundred, then saying the tens number 72' and write it as 702. Ask them to discuss with their talk partner if this is correct. Why / why not? Ask some children what they think Explain that we don't need the zero to make seventy because the 7 is in the tens column. This number would be seven hundred and two. Repeat with other numbers e.g. sixty-nine as 609 Repeat with numbers with hundreds e.g. two hundred and sixty-two as 20062. Tell the children '1 am going to write the number five hundred and fur 'and write it as 54. Ask them to discuss with their talk partner if this is correct. Why / why not? Ask some children what	Lower ability (write the names of numbers <b>up</b> <b>to 20</b> in figures in words e.g. 7 as seven, and numbers in words in figures e.g. eighteen as18. Middle ability - write the names of <b>two-digit</b> numbers in figures in words e.g. 72 as seventy-two, and numbers in words in figures e.g. sixty-eight as 68. Higher ability – as middle ability, but with <b>three-digit</b> numbers Gifted and talented - as middle ability, but with <b>four-digit</b> numbers Early finishers can play the ICT game at http://www.sheppardsoft ware.com/mathgames/e arlymath/fruitShootNum bersWords.htm on the smartboard as reinforcement / a reward	Give each child a card with a number either in figures or in words. Each child needs to find their corresponding partner e.g. the child with 5, needs to find the child with 'five'. Cards will focus on numbers that are difficult to read / remember how to spell e.g. one, two, eight. Give children numbers to match the level of work that they completed

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Tu	Mental: To be able to count <b>back</b> from 10 to 100 Main: Understand place value Spr002	Mental: Have children sit in rows opposite each other in pairs. Give them a number to count back from (focusing on crossing over tens boundaries). Children take it in turns to say a number Main: TA to take children who are unable to count reliably (if unsure if can count reliably ask child to quickly count a number of items) and cover the following principles: One-to-one – each item should only be counted once. TA to make deliberate mistake of continuously counting each item more than once, until children say 'No! That's wrong'. Ask them to explain why Stable-order – that the order of number names does not change. TA to make deliberate mistake of counting each item more than once, until children say 'No! That's wrong'. Ask them to explain why. Practice counting up and down to 20. Cardinal – the last number counted tells us 'how many' items there are Abstraction – that anything can be counted, including unrelated and mixed items. TA to count mixed objects e.g. pencils, rubbers and sharpeners, as one group. Order-irrelevance – that we can count from any object; we don't have to start from right to left. TA to conservation of number – TA to show children a smaller number of larger items e.g. 4 biscuits and a larger number of smaller items e.g. 6 small coins. Discuss with the children which group has 'more' items. Discuss how we can make it easier to not make mistakes when we count e.g. arranging the items in to a row or moving the 'counted' objects away from the 'to be counted' ones Children to practice counting groups of items correctly in pairs. (If all children can count to 20, have TA take G+T and explain how units and tenths) Teacher (with remainder of class): Revise how we need to look at the position, or place, of a number to know what it is worth i.e. is it in the hundreds, tens or units column. Use place value ITP from http://www.taw.org.uk/lic/thp/lace_val.html to model how 4 is worth 4 units, 40 is worth 4 tens and 400 is worth 4 hundreds, so 40 is worth more than 4 and 400 is	Lower ability – count objects up to 20 Middle ability – write <b>2-digit</b> numbers to match representations of them on an abacus e.g. Higher ability – write <b>3-digit</b> numbers to match representations of them on an abacus e.g. Gifted and talented – as higher ability, but with numbers to one decimal place Extension – think of own numbers to draw representations of, and draw them	In ability partners give children a pupil whiteboard and a pen. Ask children to give their partners a number to draw a representation of on an abacus. Discuss if they think their partner drew a suitable representation. Why / why not? Repeat

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w	Mental: To be able to count <b>up</b> in tens from any number Main: Compare and order numbers Spr003	<ul> <li>Mental:</li> <li>Have the hundred square on the IWB from http://www.taw.org.uk/lic/itp/num_grid.html Highlight a number.</li> <li>Practice counting up in tens from it</li> <li>Main:</li> <li>Have TA take G+T children to work on comparing and ordering numbers to one decimal place:</li> <li>Show children a stick of ten in units and a similar stick divided in to tenths</li> <li>Explain how each unit in the second ten has been split in to tenths</li> <li>Give each child a unit that has been split in to tenths and have them cut it up in to ten strips. Explain that each of these is called a tenth, so a unit is made up of ten tenths</li> <li>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</li> <li>Ask the children to show you some examples of their own</li> <li>Show children how 1.0 and 1, 2.0 and 2, 3.0 and 3 (etc) are the same</li> <li>Emphasise how 1.0 is not worth more than 1 even though it has more digits. Same for 2.0 and 2, 3.0 and 3 etc</li> <li>Model how to order numbers with one decimal place</li> <li>Teacher (with remainder of class)</li> <li>For each explanation below you can use the Place Value ITP (which allows you to see a representation of each / all digits in a number (http://www.taw.org.uk/lic/it/place_val.html) to compare the numbers:</li> <li>1. Choose a number to display by clicking on the arrows above the boxes in the bottom right-hand corner and clicking on the numbers you wish to display, click on the numbers again and you should have both number has more digits is the highest e.g. 50 is higher / more than 5, and 500 is greater than 50. Repeat with similar examples e.g. 56 and 8, 243 and 87</li> <li>If we number has more digits than another, the one with more digits is the highest e.g. 50 is higher / more than 5, and 500 is greater than 50. Repeat with similar examples e.g. 45 and 72, first you need to look at the number furthest</li></ul>	Lower ability – compare numbers below 20 (use number line if needed) Middle ability – compare numbers up to 100 Higher ability – compare numbers up to 1,000 Gifted and talented – compare numbers up to 10,000 and to 1 decimal place Extension – play game on IWB at http://www.crickw eb.co.uk/ks2nume racy- calculation.html (3rd game down) as a reward and to reinforce lesson	ICT activity on IWB at http://www.cr ickweb.co.uk /ks2numerac Y- calculation.ht ml (3rd game down) where children need to choose < > or = and drag and drop it between two numbers

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Th	Mental: To be able to count <b>back</b> in tens from any number Main: Partition numbers Spr004	Mental: Have the hundred square on the IWB from http://www.taw.org.uk/lic/itp/num_grid.html Highlight a number. Practice counting back in tens from it Main: 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 numbers with a decimal place: Show children a stick of ten: Show children another version of it: 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 Ask the children to show you some examples of their own Model how to partition numbers with one 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 <u>http://www.taw.org.uk/lic/itp/place_val.html</u> (if link does not work, just Google 'Place Value ITP') to show how a number 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 tors of ten Model how we can partition numbers e.g. 43 = 40 + 3 or 572 = 500 + 70 + 2 Repeat above model, but for thousands as well e.g. 3,891 = 3,000 + 800 + 90 + 1	Lower ability – partition 2-digit numbers Middle ability – partition 3-digit numbers Higher ability – partition 4-digit numbers G+T – partition numbers with 1 decimal place Extension – make up own numbers to partition on pupil whiteboards	Ask children to come up with some of their own numbers and partition them on their pupil whiteboards. Explain what they have done to a partner

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F	Mental: To be able to count <b>up and</b> <b>back</b> in tens from any number Main: Partition numbers in different ways Spr005	Mental: Have the hundred square on the IWB from http://www.taw.org.uk/lic/itp/num_grid.html Highlight a number. Practice counting up / down in tens from it Main: 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: 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 thtp://www.taw.org.uk/lic/itp/place_val.html (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 ten times as many as a number in the units column e.g. the 1 in 100 is worth ten lots of ten Model how we can partition numbers in different ways e.g. 43 = 40 + 3 or 40 + 2 + 1 or 20 + 20 + 3 etc Repeat above model for 3 and 4-digit numbers as well	Lower ability – partition numbers up to 20 Middle ability – partition 2-digit numbers Higher ability – partition 3-digit numbers G+T – partition 4-digit numbers and numbers with 1 decimal place Extension – make up own numbers to partition in different ways on pupil whiteboards	Ask children to come up with some of their own numbers and partition them in more than one way on their pupil whiteboards. Explain what they have done to a partner

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