| Key skills | Say numbers <br> Counting forwards <br> Counting backwards <br> Recognise numerals <br> Write numerals <br> Counting objects/ symbols assigning each <br> number to 1 object...1-1 correspondence <br> In practical activities and discussions use mathematical vocabulary involved with addition. <br> Using and understanding conventional symbols |  |
| :---: | :---: | :---: |
| Counting backwards in 1s | Practical activities, songs and rhymes. |  |
| Can find 1 less than any number to 10 | Use of appropriate number lines / 100 squares to count back | Teacher models <br> 1 less than $5=($ is the same as ) 4 |
| Relate less than to take away | Use fingers, objects to take an amount away. |  |
| Reduction How many are left from a set of objects after taking some away. | Picture/ story representations of subtraction. | We made 6 cakes. We ate 2 of them. <br> How many cakes are left? |
| Finding the difference using concrete apparatus by comparison | Practical work comparing 2 sets of objects and finding the difference ( use this particularly when the numbers are close together) | There are 2 more / 2 less |
| Finding the difference using number lines by | Number lines Counting back | $11-7=4$ $11$ |

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| counting back |  |  |
| :---: | :---: | :---: |
| Finding the difference by counting on | Understand when it is sensible to count back e.g. 18-5 and when to count on e.g. 18-13. | counting on <br> The difference between 7 and 11 $=4$ <br> Recording by - drawing jumps on prepared lines <br> constructing own lines |
| Key skills Knowing number bonds to 10 . Knowing what the symbols -, = mean | Recite subtraction facts to 10 | Signs and symbols $\begin{array}{rlrl} 5-2 & = & =5-2 \\ 5- & =3 & & 3=-2 \\ -2 & =3 & 3 & =5- \\ - & =3 & 3=- \end{array}$ <br> Reciting number bonds |
| Subtraction using larger numbers to 20 | Practical work and ensure that child can read symbols to make sense of them |  |
| Solving one step practical problems | Use pictures/images to reinforce the meaning | There were 17 bean bags in a bucket. <br> Luke took 9. |
| Inverse operations And missing number sums | Practical work to show that subtraction is the inverse of addition. | I have 10 teddies and I give 2 away to my friend I have 8 left. <br> I have 8 teddies and my friend gives me the 2 teddies back now I have 10 teddies. <br> Repeat with 8 teddies being given away etc <br> Recording this using symbols $\begin{array}{\|lr\|} \hline 10-2=8 & 10-8=2 \\ 8+2=10 & 2+8=10 \\ 8+?=10 & 2+?=10 \\ \hline \end{array}$ |
| Descending number sequences |  | 20,18,16,14 ? |
| Key skill knowing | These need to be known by heart and continually reinforced. |  |

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| Children need to have a secure understanding of the expanded method in order to understand the compact method | Use place value counters to illustrate this and ensure understanding of concept | $\begin{array}{r} 614 \\ 74 \\ -27 \\ \hline 47 \end{array}$ |
| :---: | :---: | :---: |
| The expanded method of subtraction for 3 digit numbers | This is to illustrate partitioning and ensure understanding of what is happening before moving on to more abstract compact method | Expanded method $\begin{array}{r} 500+60+3 \\ -200+40+1 \\ \hline 300+20+2 \end{array}$ |
| Compact method | With good understanding this will enable children to become more efficient and faster in calculations. | leading to $\begin{array}{r} 563 \\ -\quad 241 \\ \hline 322 \end{array}$ |
| Expanded method of subtraction with decomposition | Use place value counters/ manipulatives to model this | $\begin{array}{r} 400 \\ 500+60+3 \\ -\quad 200+70+1 \\ \hline 200+90+2 \end{array}$ |

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| Compact method |  | $\begin{array}{r} 416 \\ 563 \\ -271 \\ \hline 292 \end{array}$ |
| :---: | :---: | :---: |
| How to deal with zeros when subtracting. Compact method | Experience is needed with: <br> manipulatives, 100 squares, practical maths. |  |
| Extend this to subtracting decimals and working with money. |  | $\begin{array}{r} £ 8.95 \\ -£ 4.38 \\ \hline £ 4.57 \\ \hline \end{array}$ |
| Continue to use mental methods | Look at the calculation and decide which method will be the most efficient. A written algorithm, a number line, finding the difference by counting on or counting back. Rounding and adjusting. |  |

