## West Dean CE Primary School <br> Calculation Guide - Subtraction

Links with addition are absolutely key throughout. Subtraction is key to understanding division.

| Objective and Strategies | Concrete | Pictorial | Abstract |
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| Taking away ones | Use physical objects, counters, cubes etc to show how objects can be taken away. $6-2=4$ | Cross out drawn objects to show what has been taken away. $15-3=12$ | $\begin{aligned} & 15-3=12 \\ & 6-2=4 \end{aligned}$ |
| Counting back | Make the number with the greatest value in your subtraction. Move the beads along your bead string as you count backwards in ones. $\square$ <br> 13-4 <br> Or use counters and move them away from the group as you take them away counting backwards as you go. | Count back on a number line or number track <br> 13-4 <br> Start at the bigger number and count back the smaller number showing the jumps below the number line. <br> 57-23 <br> This can progress all the way to counting back using two 2 digit numbers. | Put 13 in your head, count back 4. What number are you at? Use your fingers to help. $13-4=9$ $57-23=34$ |


| Part - Part Whole Model | Link to addition- use the part part whole model to help explain the inverse between addition and subtraction. <br> If 10 is the whole and 6 is one of the parts. What is the other part? $10-6=$ | Use a pictorial representation of objects to show the part part whole model. | $\begin{aligned} & 10-6=4 \\ & 10-4=6 \\ & 6+4=10 \\ & 4+6=10 \end{aligned}$ <br> Move to using numbers within the part whole model. |
| :---: | :---: | :---: | :---: |
| Find the difference | Compare amounts and objects to find the difference. $12-11=1$ <br> Use cubes to build towers or make bars to find the difference $5-3=2$ <br> Use basic bar models with items to find the difference | Count on to find the difference. $\begin{aligned} & 11-5=6 \\ & 5+6=11 \end{aligned}$ <br> Lisa is 13 years old. Her sister is 22 years old. Find the <br> Draw bars to difference in age between find the difference them. between 2 numbers. $13+\ldots=22$ | Hannah has 23 sandwiches, Helen has 15 sandwiches. Find the difference between the number of sandwiches. $\begin{aligned} & 23-15=8 \\ & 15+\ldots=23 \end{aligned}$ <br> THE LINK TO ADDITION IS VERY IMPORTANT AT THIS STAGE $\begin{aligned} & 23-15=8 \\ & 23-8=15 \\ & 15+8=23 \\ & 8+15=23 \end{aligned}$ |




| Column method with regrouping | Use Base 10 or Deines to start with before moving on to place value counters. Start with one exchange before moving onto subtractions with 2 exchanges. <br> Make the number with the greatest value with the place value counters <br> Start with the ones, can I take away 8 from 4 easily? I need to exchange one of my tens for ten ones. | Draw the counters onto a place value grid and show what you have taken away by crossing the counters out as well as clearly showing the exchanges you make. |
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Children can start their formal written method by partitioning the number into clear place value columns.


When confident, the children use a more compact method.


