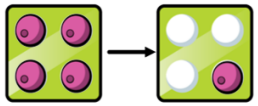
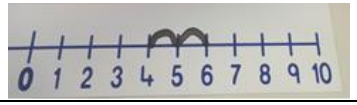
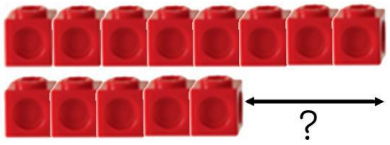
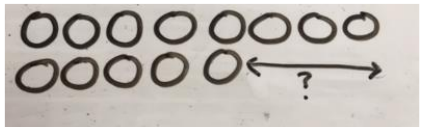
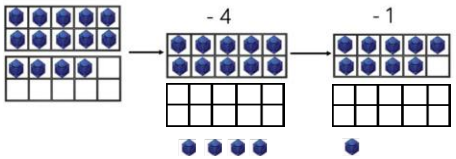
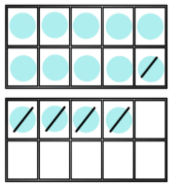
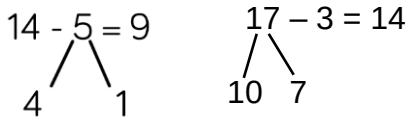
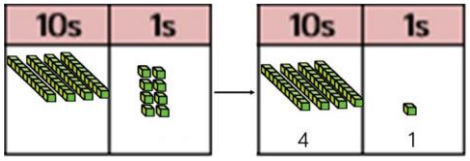
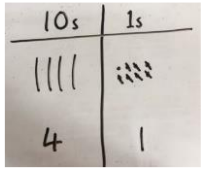
Subtraction Routeway

Key Vocabulary: take away, less than, the difference between, subtract, minus, fewer, decrease		
Concrete	**Pictorial**	**Abstract**
Physically taking away and removing objects from a whole (ten frames, cubes and other items such as bean bags could be used). 4-3 = 1  	  Simple Bar model X X X X X X X X X	4 - 3 = □ = 4 - 3
Counting back 4 – 3 = 1  Children to count back when taking away each object.	Children to represent what they see pictorially e.g.  Children to represent the calculation on a number line or number track and show their jumps.  	Encourage the children to use an empty number line. 

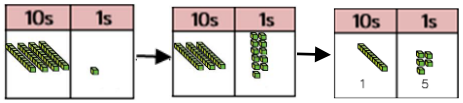
Subtraction Routeway

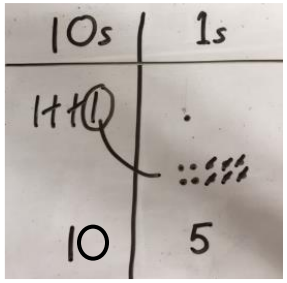
Finding the difference (using cubes, Cuisenaire rods, other objects can also be used). Calculate the difference between 8 and 5. 	Children to draw the cubes/other concrete objects which they have used to illustrate what they need to calculate. 	Find the difference between 8 and 5. 8 – 5 the difference is ☐
Making 10 using tens frames 14-5 = 	Children to present the tens frame pictorially and discuss what they did to make 10. 	Children to show how they can make 10 by partitioning the subtrahend.  14 – 4 = 10 10 – 1 = 9 7 – 3 = 4 10 + 4 = 14
Column method using base 10. 48-7 	Children to represent the base 10 pictorially. 	Children could count back 7.

Subtraction Routeway

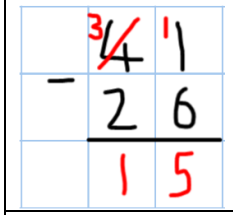
<table>
<tr>
<td>Column method using base 10 and having to exchange.

41 – 26 =

 
</td>
<td>Represent the base 10 pictorially, remembering to show the exchange.

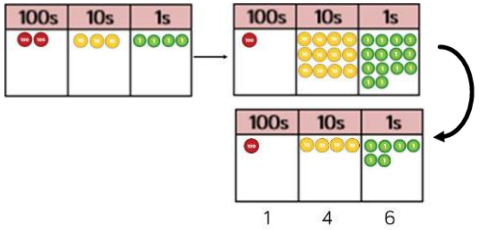
 

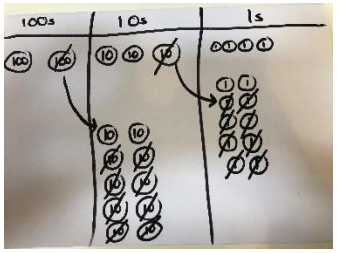
10 + 5 = 15</td>
<td>Formal column method. Children must understand that when they have exchanged the 10 they still have 41 because 41 = 30 + 11.

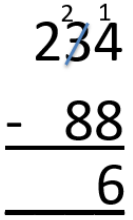
Written method subtracting ones and tens.

46 – 19 =
46 – 9 – 37
37 – 10 = 27</td>
</tr>
<tr>
<td>Column method using place value counters.
234 – 88 =

 
</td>
<td>Represent the place value counters pictorially; remembering to show what has been exchanged.
234 – 88 =

100 + 40 + 6</td>
<td>Formal column method. Children must understand what has happened when they have crossed out digits.

 
</td>
</tr>
</table>