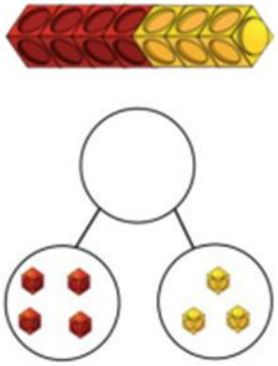
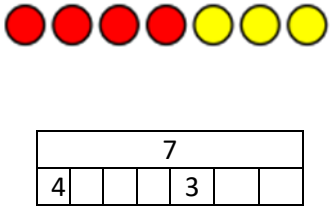
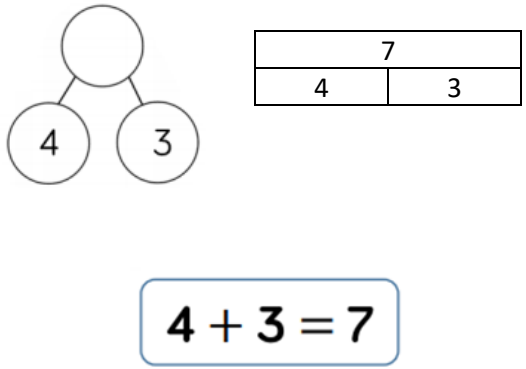
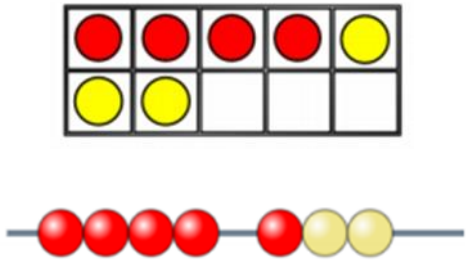
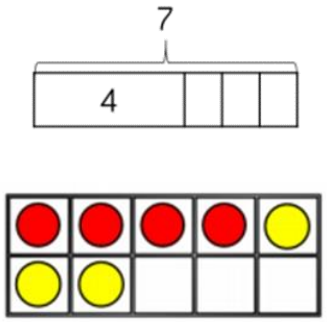
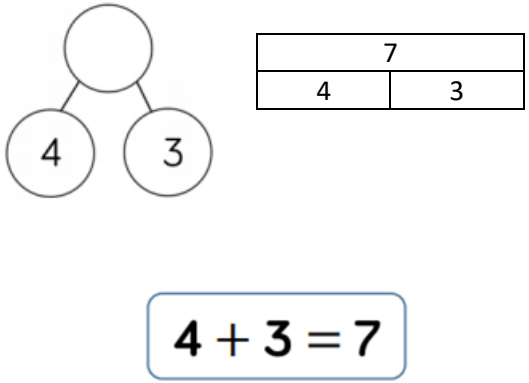
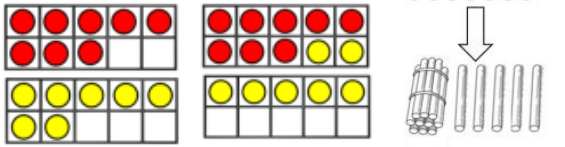
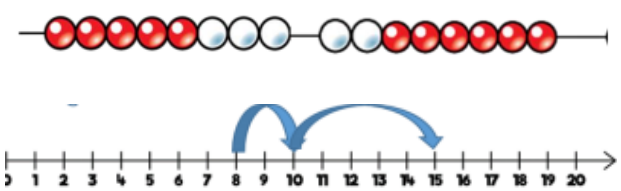
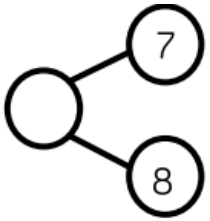
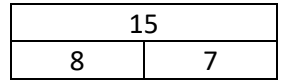
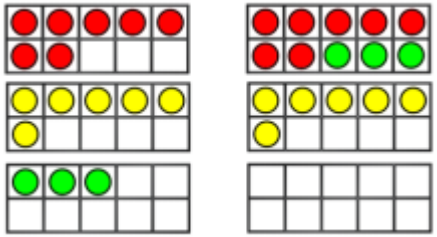
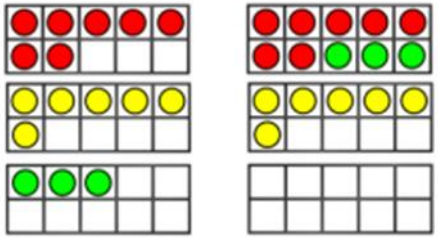
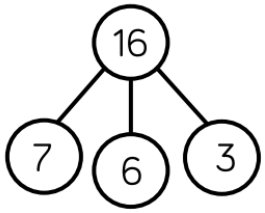
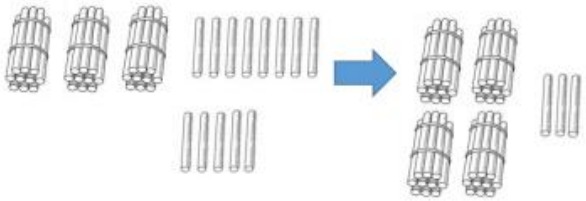
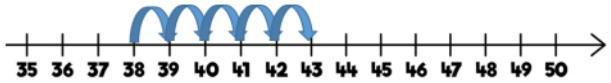
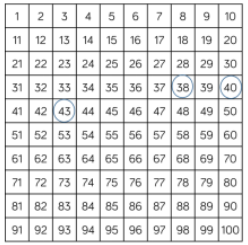
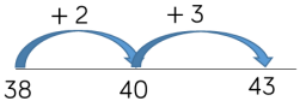
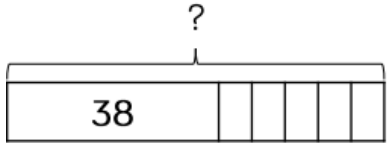
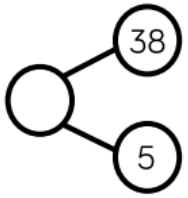
Year 1 - Addition	Add 1-digit numbers within 10 (aggregation)	
Concrete	**Pictorial**	**Abstract**
		

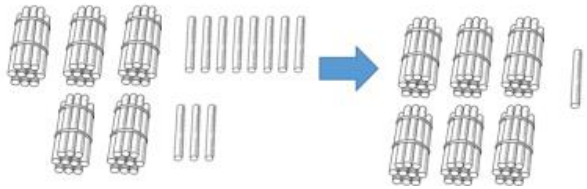
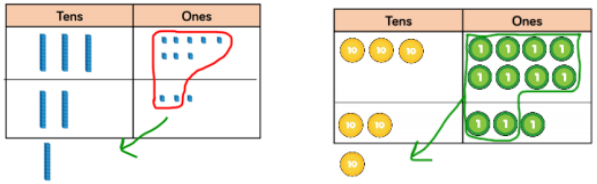
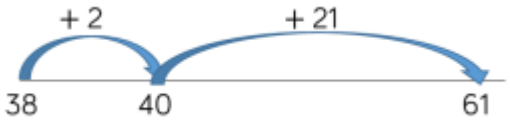
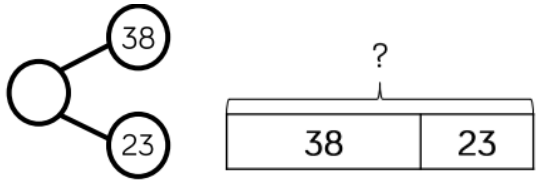
Year 1 - Addition	Add 1-digit numbers within 10 (augmentation)	
Concrete	**Pictorial**	**Abstract**
		

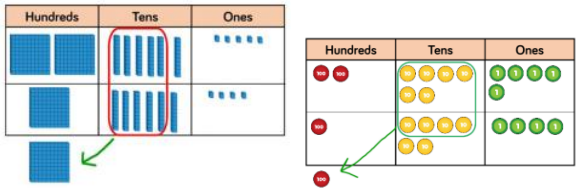
<table>
<tr><th colspan="2">Year 1/2 - Addition</th><th colspan="2">Add 1 and 2-digit numbers to 20</th></tr>
<tr><th>Concrete</th><th colspan="2">Pictorial</th><th>Abstract</th></tr>
<tr><td>The calculation is shown alongside the use of concrete resources
 
(Base 10)</td><td colspan="2">  </td><td> 
 
$8 + 7 = 15$</td></tr>
<tr><td></td><td colspan="3"></td></tr>
<tr><td>Key skills and concepts</td><td colspan="3">When adding 1-digit numbers that cross 10:

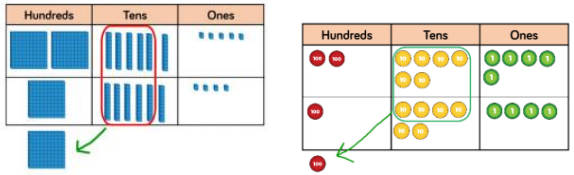
• Highlight the importance of ten ones equalling one
• Use different manipulatives to represent the exchange
• Use concrete resources alongside number lines to support children's understanding in how to partition their jumps</td></tr>
</table>

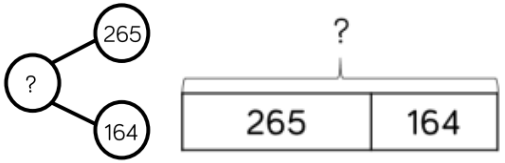
Year 2 - Addition	Add three 1-digit numbers	
Concrete	**Pictorial**	**Abstract**
 $7 + 6 + 3 = 16$ 10 The calculation is shown alongside the use of concrete resources	 $7 + 6 + 3 = 16$ 10 Alongside the use of concrete resources images and drawings of these resources are used.	 16 7 6 3 $7 + 6 + 3 = 16$
Key skills and concepts	When adding three 1-digit numbers: • Encourage children to look for **number bonds to 10** or **doubles** • This skill supports children's **understanding of commutativity** • Manipulatives that show number bonds to 10 are effective to use	

Year 2/3 - Addition	Add 1-digit and 2-digit numbers to 100	
Concrete	**Pictorial**	**Abstract**
 (Use Base 10)	  	  $38 + 5 = 43$
Key skills and concepts	When adding single digits to a two-digit number: • Encourage children to **count on from the larger number** • Apply their **knowledge of number bonds** to add efficiently e.g., 8 + 5 = 13 so 38 + 5 = 43 • Hundred square and base 10/straws can be used for support	

Year 2/3 - Addition	Add two 2-digit numbers to 100	
Concrete	**Pictorial**	**Abstract**
 (Use Base 10)	 	 38 + 23 = 61 38 + 23 61 1
Key skills and concepts	When adding two 2-digit numbers to 100: **Column method** • Encourage children to **use the formal method alongside straws, base 10 or place value counters** **Counting on** • **A blank number line** can be used **to count on** to find the total • Encourage children **to jump to multiples of 10** for efficiency	

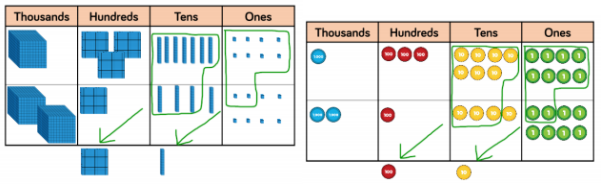
<table>
<tr><th colspan="2">Year 3 - Addition</th><th colspan="2">Add numbers with up to 3 digits</th></tr>
<tr><th>Concrete</th><th>Pictorial</th><th colspan="2">Abstract</th></tr>
<tr>
<td> 

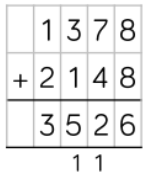
265
+ 164
429
1
The calculation is shown alongside the use of concrete resources</td>
<td> 

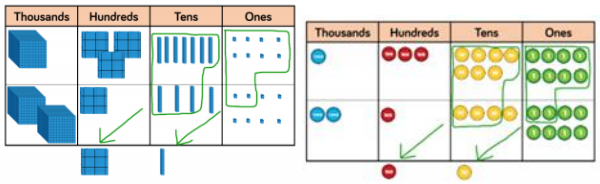
Alongside the use of concrete resources images and drawings of these resources are used.</td>
<td colspan="2"> 

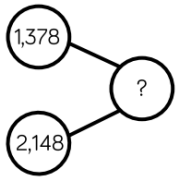
265 + 164 = 429
265
+ 164
429
1</td>
</tr>
<tr><td></td><td colspan="3"></td></tr>
<tr><td>Key skills and concepts</td><td colspan="3">When adding numbers with up to 3 digits:

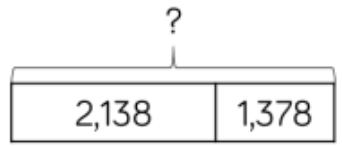
• Base 10 and place value counters are the most effective manipulatives
• As number sizes increase place value counters are more efficient
• Children write the calculation alongside any concrete resources so the links to the written column method can be seen
• Plain counters on a place value grid can be used as concrete resources and for images and children's drawings</td></tr>
</table>

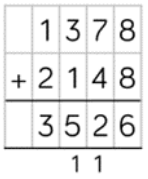
<table>
<tr><th colspan="2">Year 4 - Addition</th><th colspan="2">Add numbers with up to 4 digits</th></tr>
<tr><th>Concrete</th><th>Pictorial</th><th colspan="2">Abstract</th></tr>
<tr>
<td> 



The calculation is shown alongside the use of concrete resources</td>
<td> 

Alongside the use of concrete resources images and drawings of these resources are used.</td>
<td colspan="2"> 



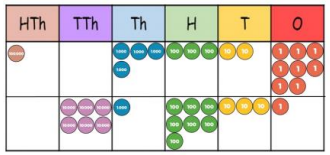
1,378 + 2,148 = 3,526</td>
</tr>
<tr><td></td><td colspan="3"></td></tr>
<tr>
<td>Key skills and concepts</td>
<td colspan="3">When adding numbers with up to 4 digits:

• Base 10 and place value counters are the most effective manipulatives
• As number sizes increase place value counters are more efficient
• Children write the calculation alongside any concrete resources so the links to the written column method can be seen
• Plain counters on a place value grid can be used as concrete resources and for images and children's drawings</td>
</tr>
</table>

Year 5/6 - Addition

Add numbers with more than 4 digits

Concrete

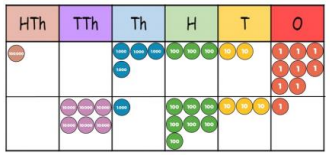


1	0	4	3	2	8
+	6	1	7	3	1
1	6	6	0	5	9

1

The calculation is shown alongside the use of any concrete resources

Pictorial

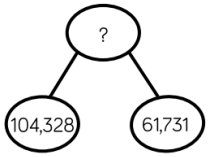


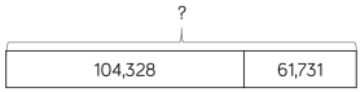
1	0	4	3	2	8
+	6	1	7	3	1
1	6	6	0	5	9

1

Alongside the use of concrete resources images and drawings of these resources are used.

Abstract





$$104{,}328 + 61{,}731 = 166{,}059$$

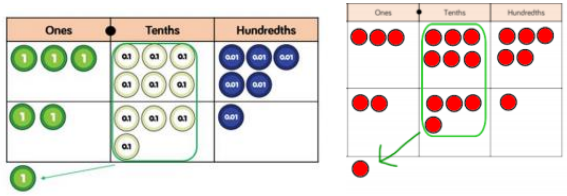
1	0	4	3	2	8
+	6	1	7	3	1
1	6	6	0	5	9

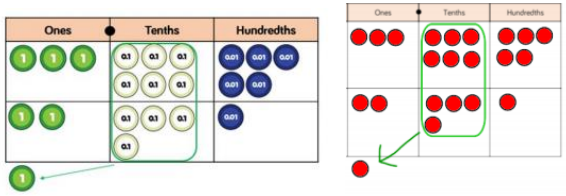
1

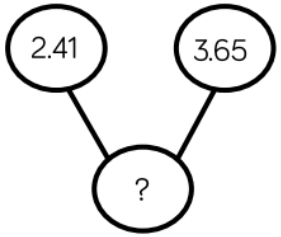
Key skills and concepts

When adding numbers with more than 4 digits:

- **Place value counters or plain counters on a place value grid** are the most effective manipulatives
- At this stage **children should be encouraged to work in the abstract, using the column method** to add larger numbers efficiently

<table>
<tr><th colspan="2">Year 5 - Addition</th><th colspan="2">Add numbers with up to 3 decimal places</th></tr>
<tr><th>Concrete</th><th colspan="2">Pictorial</th><th>Abstract</th></tr>
<tr>
<td> 

3.65
+ 2.41
6.06
1
The calculation is shown alongside the use of any concrete resources</td>
<td colspan="2"> 

Alongside the use of concrete resources images and drawings of these resources are used.</td>
<td> 

3.65
+ 2.41
6.06
1
?
3.65 | 2.41
3.65 + 2.41 = 6.06</td>
</tr>
<tr><td></td><td colspan="3"></td></tr>
<tr><td>Key skills and concepts</td><td colspan="3">When adding numbers with up to 3 decimal places:
• Place value counters or plain counters on a place value grid are the most effective manipulatives
• Ensure children have experience of adding decimals with a variety of decimal places
• Ensure children have experience putting this skill into context when adding money and measures</td></tr>
</table>