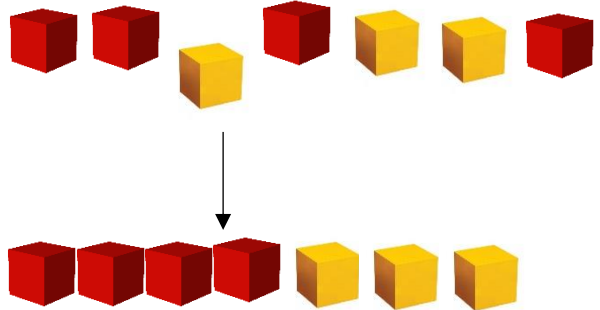
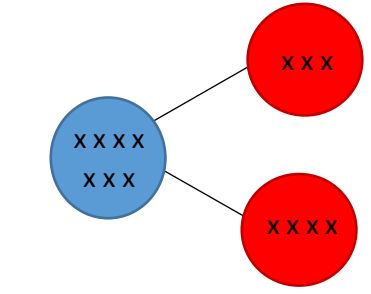
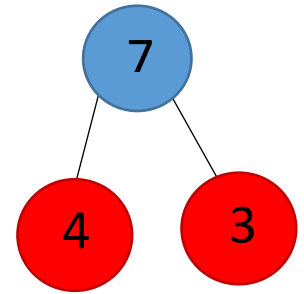

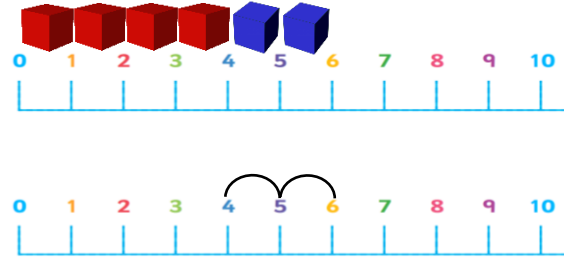

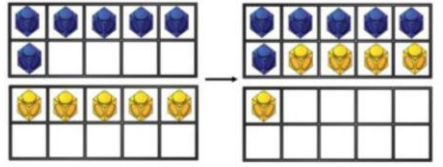
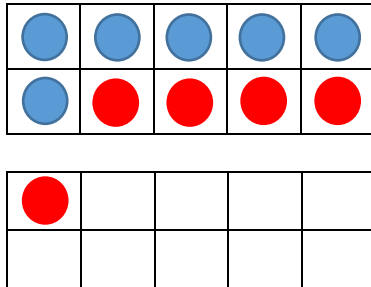


Key Vocabulary: sum, total, parts and wholes, plus, add, altogether, more, is equal to, is the same as, more than		
Concrete	Pictorial	Abstract
<p>Combining <b>two parts to make a whole</b> (using a range of different resources).</p> 	<p>Children to represent the cubes using dots or crosses in a Part Part Whole Model.</p> 	<p><math>4 + 3 = 7</math></p> 
<p>Counting on using cubes and cups.</p> 	<p>Counting on using number lines using cubes.</p> 	<p>Drawing own number line.</p>  <p>Mental method: Put the largest number in your head and count on.</p>
<p><b>Regrouping to make 10</b>; using tens frames and counters/cubes.</p> <p><math>6 + 5</math></p> 	<p>Children to draw the tens frame and counters/cubes.</p> <p><math>6 + 5</math></p> 	<p>Children to develop an understanding of equality e.g.</p> <p><math>6 + 5 = 10 + 1 = 11</math></p>

**TO + TO using base 10.**  
Continue to develop understanding of partitioning and place value.

$41 + 8 =$

T	O
	■
	■■■■ ■■■■

$40 + 9 = 49$

Children to represent the base 10.

T	O
	x
	x x x x x x x x x

$40 + 9 = 49$

$41 + 8 =$   
 $1 + 8 = 9$   
 $40 + 9 = 49$

*In the early stages children will make mental jottings before using this as a mental method.*

**TO + TO using base 10.**  
Continue to develop understanding of partitioning and place value.

$36 + 25 =$

T	O
	■■■■
	■■■■ ■■■■ ■■■■

$60 + 1 = 61$

Children to represent the base 10.

T	O
	x x x x x
	x x x x x x

$60 + 1 = 61$

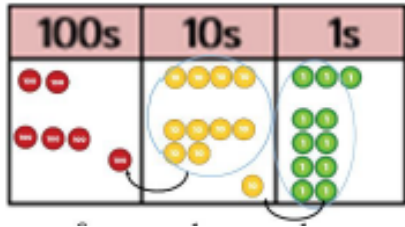
$36 + 25 =$   
 $6 + 5 = 11$   
 $30 + 20 = 50$   
 $50 + 10 + 1 = 61$

T O
36
<u>+25</u>
61
1

When children are secure with base 10 move to using place value counters. Continue to use base 10 to model for all sizes of numbers.

**Use place value counters to add HTO + TO, HTO + HTO etc.**

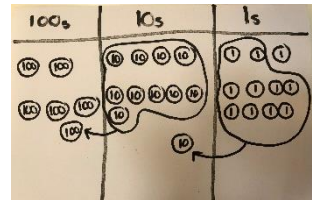
$$243 + 368 =$$



$$600 + 10 + 1$$

Children to represent the counters in a place value chart circling when they make an exchange.

$$243 + 368 =$$



$$600 + 10 + 1$$

$$\begin{array}{r} \text{HTO} \\ 243 \end{array}$$

$$\begin{array}{r} +368 \\ \hline 611 \\ 11 \end{array}$$