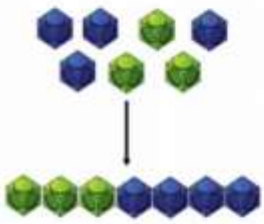
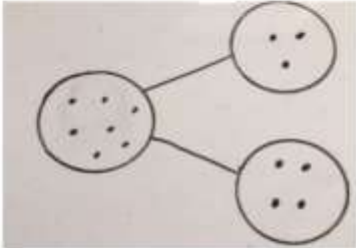
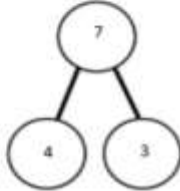
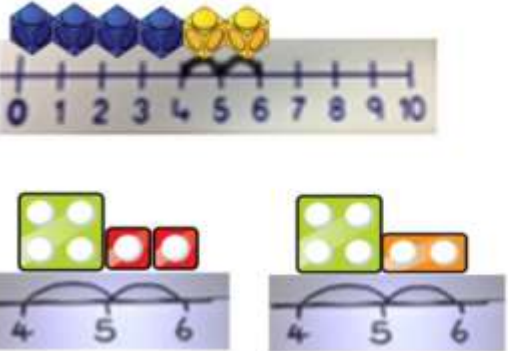
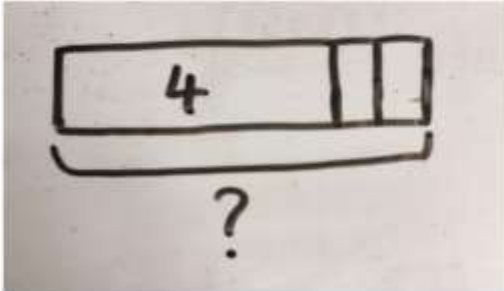

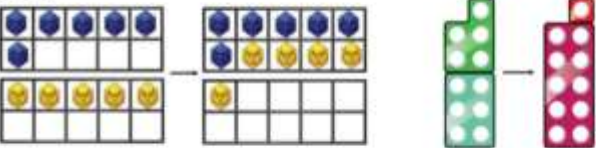
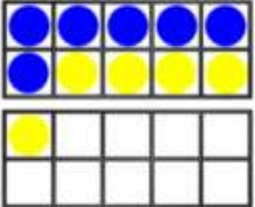


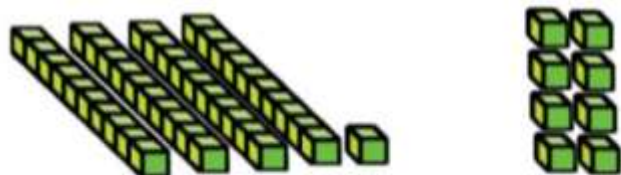
Calculation policy: Addition

Key language: sum, total, parts and wholes, plus, add, altogether, more, 'is equal to' 'is the same as'.

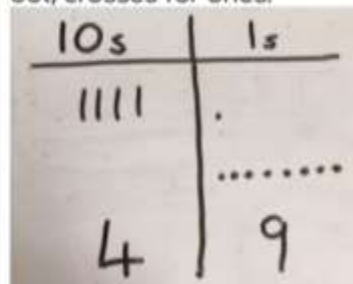
| Concrete | Pictorial | Abstract |
|--|--|---|
| <p>Combining two parts to make a whole (use other resources too e.g. eggs, shells, teddy bears, cars).</p>  | <p>Children to represent the cubes using dots or crosses. They could put each part on a part whole model too.</p>  | <p>$4 + 3 = 7$ Four is a part, 3 is a part and the whole is seven.</p>  |
| <p>Counting on using number lines using cubes or Numicon.</p>  | <p>A bar model which encourages the children to count on, rather than count all.</p>  | <p>The abstract number line: What is 2 more than 4? What is the sum of 2 and 4? What is the total of 4 and 2? $4 + 2$</p>  |
| <p>Regrouping to make 10; using ten frames and counters/cubes or using Numicon.</p> <p>$6 + 5$</p>  | <p>Children to draw the ten frame and counters/cubes.</p>  | <p>Children to develop an understanding of equality e.g.</p> $6 + \square = 11$ $6 + 5 = 5 + \square$ $6 + 5 = \square + 4$ |

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

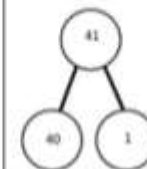
41 + 8



Children to represent the base 10 e.g. lines for tens and dot/crosses for ones.



41 + 8

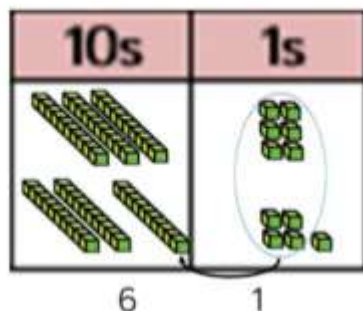


1 + 8 = 9
40 + 9 = 49

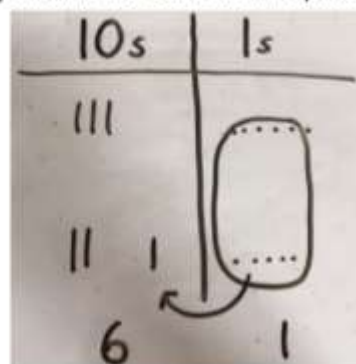
| | | |
|-------|---|---|
| | 4 | 1 |
| + | | 8 |
| <hr/> | | |
| | 4 | 9 |

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

36 + 25



Children to represent the base 10 in a place value chart.



Looking for ways to make 10.

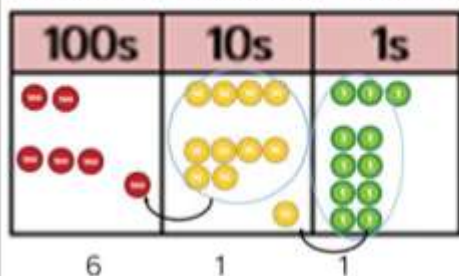
36 + 25 = 30 + 20 = 50
5 + 5 = 10
50 + 10 + 1 = 61

1 5

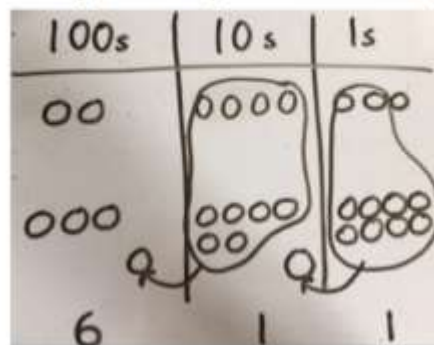
Formal method:

| | | |
|-------|---|---|
| | 3 | 6 |
| | 2 | 5 |
| <hr/> | | |
| | 6 | 1 |
| | 1 | |

Use of place value counters to add HTO + TO, HTO + HTO etc. When there are 10 ones in the 1s column- we exchange for 1 ten, when there are 10 tens in the 10s column- we exchange for 1 hundred.



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



| | | | |
|-------|---|---|---|
| | 2 | 4 | 3 |
| | 3 | 6 | 8 |
| <hr/> | | | |
| | 6 | 1 | 1 |
| | 1 | 1 | |