|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Key Vocabulary:** sum, total, parts and wholes, plus, add, altogether, more, is equal to, is the same as, more than | | | | | |
| **Concrete** | | **Pictorial** | | **Abstract** | |
| Related imageRelated imageCombining **two parts to make a whole** (using a range of different resources).  Related imageRelated imageRelated imageRelated imageRelated image  Related image  Related imageRelated imageRelated imageRelated imageRelated imageRelated imageRelated image  Related image  Related image | | Children to represent the cubes using dots or crosses in a Part Part Whole Model.  x x x x  x x x  x x x  x x x x | | 4 + 3 = 7  4  3  7 | |
| **Counting on** using cubes and cups.  Related imageRelated image    Related image  4 | | Counting on using number lines using cubes.  Related imageRelated imageRelated imageRelated imageRelated imageRelated image | | Drawing own number line.  Mental method: Put the largest number in your head and count on. | |
| **Regrouping to make 10**; using tens frames and counters/cubes.  6 + 5 | | Children to draw the tens frame and counters/cubes.  6 + 5   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | |  |  |  |  |  | | | Children to develop an understanding of equality e.g.  6 + 5 = 10 + 1 = 11 | |
| **TO + TO using base 10.**  Continue to develop understanding of partitioning and place value.   |  |  | | --- | --- | | **T** | **O** | |  |  |   **41 + 8**  **40 + 9 = 49** | | Children to represent the base 10.   |  |  | | --- | --- | | **T** | **O** | | **l l l l** | 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** | | **l l l**  **l l l** | 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** | |
| 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 =  C:\Users\dugganw\Downloads\IMG_0010.jpg  600 + 10 + 1 | | **H T O** | |

