# Subtraction methods 

## Subtraction - Reception



1. Establishing take away (Using concrete objects)


The difference is?

3. Beginning to look at difference

## Subtraction - Year 1



1 less than 10 is 9
10 subtract I equals 9
$10-1=9$


$$
5-\square=3
$$


2. Finding the difference between 3 and 5 (Using concrete objects and visual pictures)

## Subtraction - Year 2



The difference between II and 14 is 3 .
$|4-| |=3$
$11+\square=14$


22-3

2. Looking at appropriate times for counting back (taking away) and counting on (difference)
3. Counting on and back finding differences on a 100 square

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

## Subtraction - Year 3

1. Use a number line, counting on to the next multiple of $\mathbf{1 0}$

2. Vertical number line showing the same
3. Leading to expanded vertical layout counting on from the smaller to the larger


## Subtraction - Year 4

1. Vertical number line for HTU - TU 2. Leading to expanded

2. As above with HTU - HTU

## Subtraction - Year 5

1. Compact counting on, using known complements to 100 (Go back to number lines if necessary)

$$
\begin{array}{r}
756 \\
-281 \\
\hline+19(300) \\
+400(700) \\
+56 \\
\hline+775
\end{array}
$$

2. As above with ThHTU - ThHTU
3. Use number lines to initially count on with decimals

$$
7.6-5.8=
$$



## Subtraction - Year 6

1. Decimals with a similar number of decimal places

| 27.92 |
| ---: |
| -18.56 |
| +0.04 |
| $+0.40(18.60)$ |
| +1.00 |
| +7.92 |
| 9.36 |

2. Decimals with a dissimilar number of decimal places requiring zero placeholders to be inserted
```
    421.30
    - 82.57
    +0.03 (82.60)
    + 0.40 (83.00)
    + 17.00 (100.00)
+321.30 (421.30)
    338.73
```

When returning to a written calculation at this stage, e.g. to revise or to extend to decimals or to numbers with more digits, it is a good idea to start again with informal, expanded methods. This helps to retain their understanding of the link between different methods and makes it easier for them to resort to the expanded method if they need to.

