## Year Two Addition



| Mentally counting on from the biggest number using partitioning and part, part whole to support |
| :--- |
| $16+7=23$ |
| $16+4=20$ |
| $20+3=23$ |





## Subtraction



| Mentally counting back from the biggest number using partitioning and part, part $\begin{aligned} & 37-8= \\ & 37-7=30 \end{aligned}$ $37 \ldots 36 \ldots 35 \ldots \text { etc } \quad 30-1=29$ |  |
| :---: | :---: |
| Subtracting Tens from a Number |  |
| Use of practical apparatus to support subtracting <br> Bead strings <br> Numicon <br> Dienes <br> Hundred square $\begin{aligned} & 46-10=36 \\ & 36-10=26 \ldots \end{aligned}$ |  |
| Through use of pictorials in books and children's jottings to support subtracting 10 s. Children physically cross out $33-10=23$ | Mentally subtracting ten from a number. Children to use knowledge of patterns to subtract tens $35-10=25$ <br> Children can explain the pattern they noticed. |




| $55+\overline{55=}=75$ | $42+25=$ |
| :--- | :--- |
| $75-25+42=$ |  |
| Then use known methods to solve |  |

Children understand the relationship between addition and subtraction by using the inverse to check calculations are correct


## Multiplication

| Year Two | - recall and use multiplication facts for the 2,5 and <br> - calculate mathematical statements for multiplica equals (=) signs <br> - show that multiplication of two numbers can be <br> - solve problems involving multiplication, using m including problems in contexts | upils should be able to: <br> multiplication tables, including recognising odd and even numbers within the multiplication tables and write them using the multiplication $(x)$ and <br> e in any order (commutative) <br> rials, arrays, repeated addition, mental methods, and multiplication facts, |
| :---: | :---: | :---: |
| Count in Multiples |  |  |
| Use of practical apparatus to support counting in multiples of $2,3,5$, and 10 |  | Use of pictorials to support counting on in multiples <br> 15 <br> Fifteen <br> 6 <br> Six <br> 3 groups of 5 is 15 <br> 3 groups of 2 is 6 |
| Mentally counting on in multiples. Children should use pattern spotting to support their understanding of multiples. $0,5,10,15, \ldots$ <br> 'Multiples of 5 end in 0 and 5 only. They are even and odd numbers.' <br> ' 48 cannot be a multiple of 5 because it doesn't end in a 0 or 5 |  |  |




- $\quad$ Start at 0
- Count on in the multiple
- Write the total amount


Bar Model
Children can use practical resources such as Cuisenaire rods to solve using a bar model


Then children use pictorial images to support and then moving on to abstractly drawing their own to solve multiplication problems.


## Division

Pupils should be able to:

- Recall and use division facts for the 3,4 and 8 multiplication tables
- Write and calculate mathematical statements for division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods

Repeated Subtraction
Children use previous methods learned in year 2, but focus on aspect of repeated subtraction to prepare for subtracting when chunking.


## Chunking

Children can use place value counters as well as drawings to support this method conceptually.


Children should be encouraged to write down the related time tables facts to support them with the formal method of chunking.


