|  | Year 1 | Yecr 2 |
| :---: | :---: | :---: |
| ¢ | Using place value <br> Count in Is $\text { e.g. } 45+1$ <br> Count in IOs <br> e.g. $45+10$ without counting on in Is <br> Add 10 to any given 2-digit number <br> Counting on Count on in Is e.g. $8+3$ as $8,9,10,11$ <br> Add, putting the larger number first <br> Count on in IOs $\text { e.g. } 45+20 \text { as } 45,55,65$ | Using place value <br> Know I more or 10 more than any number <br> e.g. I more than 67 <br> e.g. 10 more than 85 <br> Partitioning <br> e.g. $55+37$ as $50+30$ and $5+7$, then finally combine the two totals: $80+12$ <br> Counting on <br> Add 10 and multiples of 10 to a given 1 - or 2-digit number e.g. $76+20$ as $76,86,96$ or in one hop: $76+20=96$ <br> Add two 2-digit numbers by counting on in 10 s , then in Is e.g. $55+37$ as $55+30(85)+7=92$ <br> Add near multiples of 10 <br> e.g. $46+19$ <br> e.g. $63+21$ |


|  | Year 1 | Year 2 |
| :---: | :---: | :---: |
| - | Using number facts 'Story' of $4,5,6,7,8$ and 9 $\text { e.g. } 7=7+0,6+1,5+2,4+3$ <br> Number bonds to 10 $\text { e.g. } 5+5,6+2,7+3,8+2,9+1,10+0$ <br> Use patterns based on known facts when adding e.g. $4+3=7$ so we know $24+3,44+3,74+3$ | Using number facts <br> Know pairs of numbers which make the numbers up to and including 12 $\begin{aligned} & \text { e.g. } 8=4+4,3+5,2+6,1+7,0+8 \\ & \text { e.g. } 10=5+5,4+6,3+7,2+8,1+9,0+10 \end{aligned}$ <br> Use patterns based on known facts when adding e.g. $6+3=9$, so we know $36+3=39,66+3=69,56+3=59$ <br> Bridging 10 $\text { e.g. } 57+5=57+3(60)+2=62$ <br> Add three or more I-digit numbers, spotting bonds to 10 or doubles $\begin{aligned} & \text { e.g. } 3+5+3=6+5=11 \\ & \text { e.g. } 8+2+4=10+4=14 \end{aligned}$ |

## Year 1

## Using place value

Count back in Is
e.g. Know 53 - I

Count back in 10 s
e.g. Know 53 - 10 without counting back in Is

| 32 | 33 | 34 |
| :---: | :---: | :---: |
| 42 | 43 | 44 |
| 52 | N̈0 | 54 |

Taking away
Count back in Is
e.g. II - 3 as II, IO, 9, 8
e.g. 14 - 3 as $14,13,12$, 11


Count back in 10 s
e.g. $53-20$ as 53, 43, 33

## Year 2

## Using place value

Know I less or 10 less than any number
e.g. I less than 74
e.g. 10 less than 82

Partitioning
e.g. $55-32$ as $50-30$ and $5-2$ and combine the answers: $20+3$


## Taking away

Subtract 10 and multiples of 10
e.g. $76-20$ as $76,66,56$ or in one hop: $76-20=56$

Subtract two 2-digit numbers by counting back in 10 s, then in Is e.g. 67 - 34 as 67 subtract 30 (37) then count back 4 (33)


Subtract near multiples of 10
e.g. $74-21$
e.g. $57-19$

|  | Year 1 | Yecr 2 |
| :---: | :---: | :---: |
|  | Using number facts 'Story' of 4, 5, 6, 7, 8 and 9 <br> e.g. 'Story' of 7 is $7-I=6,7-2=5,7-3=4$ <br> Number bonds to 10 $\text { e.g. } 10-1=9,10-2=8,10-3=7$ $10-7=3$ <br> Subtract using patterns of known facts <br> e.g. $7-3=4$ so we know $27-3=24,47-3=44,77-3=74$ | Using number facts <br> Know pairs of numbers which make the numbers up to and including 12 and derive related subtraction facts $\text { e.g. } 10-6=4,8-3=5,5-2=3$ <br> Subtract using patterns of known facts <br> e.g. $9-3=6$, so we know $39-3=36,69-3=66,89-3=86$ <br> Bridging 10 $\text { e.g. } 52-6 \text { as } 52-2(50)-4=46$ <br> Counting up <br> Find a difference between two numbers on a line where the numbers are close together $\text { e.g. } 51-47$ |


Doubling and halving
Find doubles to double 5 using fingers
e.g. double 3

| Grouping |
| :--- |
| Begin to use visual and concrete arrays and sets of objects to find |
| the answers to 'three lots of four' or 'two lots of five' |
| e.g. three lots of four |
| Know doubles to double 20 |
| e.g. double 7 is 14 |



|  | Year 1 | Year 2 |
| :---: | :---: | :---: |
|  | Grouping <br> Begin to use visual and concrete arrays and 'sets of' objects to find the answers to questions such as 'How many towers of three can I make with twelve cubes?' <br> Sharing <br> Begin to find half of a quantity using sharing e.g. find half of 16 cubes by giving one each repeatedly to two children | Grouping <br> Relate division to multiplication by using arrays or towers of cubes to find answers to division <br> e.g. 'How many towers of five cubes can I make from twenty cubes?' as _ $\times 5=20$ and also as $20 \div 5=$ _ <br> Relate division to 'clever' counting and hence to multiplication e.g. 'How many fives do I count to get to twenty?' <br> Sharing <br> Begin to find half or a quarter of a quantity using sharing <br> e.g. find a quarter of 16 cubes by sorting the cubes into four piles <br> Find $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$ of small quantities <br> Using number facts <br> Know half of even numbers to 24 <br> Know $\times 2, \times 5$ and $\times 10$ division facts <br> Begin to know $\times 3$ division facts |

