## Fierte Multi-Academy Calculation Policy - addition

Key language: sum, total, parts and wholes, plus, add, altogether, more, 'is equal to', 'is the same as'
Combining two parts to make a whole (use other
resources too e.g. eggs, shells, teddy bears, cars).

## Starting at the bigger number and counting on

ceceecece

Start with the larger number on the bead string and then count on to the smaller number 1 by 1 to find the answer.

$$
12+5=17
$$



Start at the larger number on the number line and count on in ones or in one jump to find the answer.
$5+12=17$

Place the larger number in your head and count on the smaller number to find your answer.

Regrouping to make 10; using ten frames and counters/cubes or using Numicon.

$6+5=11$
Start with the bigger number and use the smaller number and use the smaller number to make 10 .

Children to draw the ten frame and counters/cubes


Use pictures or a number line. Regroup or partition the smaller number to make 10

$$
9+5=14
$$


$7+4=11$

If I am at seven, how many more do I need to make 10. How many more do I add on now?

Children to develop an understanding of equality e.g.
$6+\square=11$
$6+5=5+$
$6+5=\square+4$

Following on from making 10, make 10 with 2 of the digits (if possible) then add on the third digit.
TO + O using base 10. Continue to develop understanding of partitioning and place value.
$41+8$


## Column method - no regrouping

## $24+15=$

Add together the ones first then add the tens. Use the Base 10 blocks first before moving onto place value counters.



Add together three groups of objects. Draw a picture to recombine the groups to make 10.

$$
\begin{aligned}
(4+7+6 & =10+7 \\
& =17
\end{aligned}
$$

Combine the two numbers that make 10 and then add on the remainder.
$41+8$


Calculations
$21+42=$
21
$+42$

Column method -regrouping
TO + TO using base 10. Continue to develop understanding of partitioning and place value. $36+25$


6
1

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


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


Looking for ways to make 10.

\[\)| $36+25=$ |
| :---: |
|  |
| 1 |$\quad$| $30+20=50$ |
| :--- |
| $5+5=10$ |
| $50+10+1=61$ |

\]

Formal method: $\quad \frac{+25}{61}$

Start by partitioning the numbers before moving on to clearly show the exchange below the addition.
$20+5$
$40+8$
$60+13=73$

243
$+368$
611

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


As the children move on, introduce decimals with the same number of decimal places and different. Money can be used here.

Children can draw a pictorial representation of the columns


## Conceptual variation; different ways to ask children to solve $21+34$



