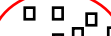
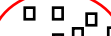
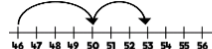
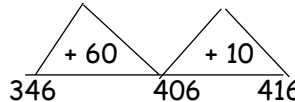
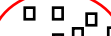
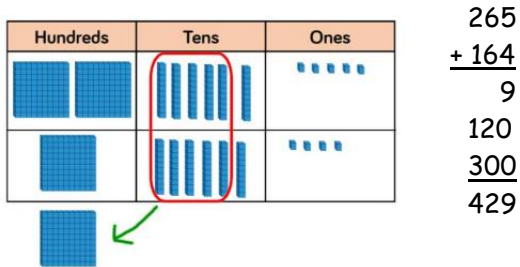


YEAR 3	Addition														
Vocabulary: Hundreds, tens, ones, estimate, partition, recombine, difference, decrease, near multiple of 10 and 100, inverse, rounding, column subtraction, exchange. (see previous year groups)															
Concrete	Pictorial	Abstract													
<u>Adding 100s, 10s and 1s no exchanging:</u> (Use diennes, place value counters or numicon). <table><tr><td>Hundreds</td><td>Tens</td><td>Ones</td></tr><tr><td></td><td></td><td></td></tr></table> 233 + 5 233 + 40 233 + 600 Initially add 1, 10 and 100 before moving onto adding multiples of 1, 10 and 100.	Hundreds	Tens	Ones				<u>Adding 100s, 10s and 1s no exchanging:</u> Use diennes notation: 233 + 5  +  456 + 40	No written method							
Hundreds	Tens	Ones													
															
<u>Adding 100s, 10s and 1s exchanging:</u> 379 + 5 = 384 <table><tr><td>H</td><td>T</td><td>O</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table> 10 ones = 1 ten (for 379 + 40 then 10 tens = 1 hundred)	H	T	O							<u>Adding 100s, 10s and 1s exchanging:</u> Use diennes jottings for adding where:  = 100 = 10  = 1 Number line: Partitioning 7 into 4 and 3 to +4 to the next 10 then +3) 346 + 7 = 353  46 + 4 = 50 50 + 3 = 53 so 346 + 7 = 353 Partitioning 70 into 60 and 10 346 + 70 = 416 	<u>Adding 100s, 10s and 1s exchanging:</u> Could possibly show this before showing the whole column method: <table><tr><td>Adding 1s</td><td>Adding 10s</td></tr><tr><td>$\begin{array}{r} 346 \\ + 7 \\ \hline 13 \\ 40 \\ \hline 300 \\ 353 \end{array}$</td><td>$\begin{array}{r} 346 \\ + 70 \\ \hline 6 \\ 110 \\ \hline 300 \\ 416 \end{array}$</td></tr></table>	Adding 1s	Adding 10s	$\begin{array}{r} 346 \\ + 7 \\ \hline 13 \\ 40 \\ \hline 300 \\ 353 \end{array}$	$\begin{array}{r} 346 \\ + 70 \\ \hline 6 \\ 110 \\ \hline 300 \\ 416 \end{array}$
H	T	O													
															
															
Adding 1s	Adding 10s														
$\begin{array}{r} 346 \\ + 7 \\ \hline 13 \\ 40 \\ \hline 300 \\ 353 \end{array}$	$\begin{array}{r} 346 \\ + 70 \\ \hline 6 \\ 110 \\ \hline 300 \\ 416 \end{array}$														

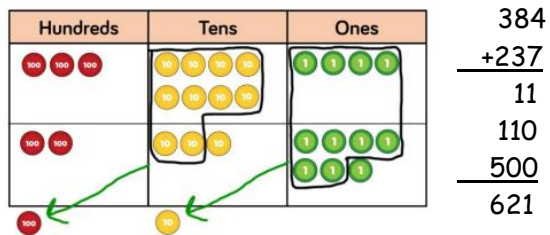
Adding 3-digit numbers:

Starting with no exchanging leading onto exchanging in the ones then the tens then the ones AND tens.

Diennes:



Place Value Counters:

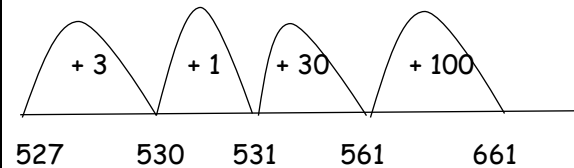
**Adding 3-digit numbers:**

Use diennes jottings for adding where:

= 100 = 10 = 1

Number line:

$527 + 134 = 661$

**Written**

Add numbers with up to 3 digits

No exchanging:

$$\begin{array}{r} 322 \\ + 235 \\ \hline 7 \\ 50 \\ \hline 500 \\ 557 \end{array}$$

Exchanging:

Ones to tens	Tens to hundreds
527	362
+ 134	+ 451
11	3
50	110
600	700
661	813

Mental methodsCounting On

$137 + 50$

(counting on in tens; 147, 157, 167, 177)

Adjusting:

$234 + 29$ (add 30 and subtract 1)

$234 + 99$ (add 100 and subtract 1)

$234 + 299$ (add 300 and subtract 1)

Using Known Facts and Place Value:

$282 + 7$

$2 + 7 = 9$ so $282 + 7 = 289$

$231 + 50$

$30 + 50 = 80$ so $231 + 50 = 281$

Redistribution:

$136 + 47$ redistribute to $133 + 50 = 183$

Partitioning:

$236 + 133$

$200 + 100 = 300$

$30 + 30 = 60$

$6 + 3 = 9$,

So $300 + 60 + 9 = 369$