

YEAR 3

Addition

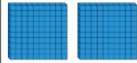
Vocabulary:

Hundreds, tens, ones, estimate, partition, recombine, difference, decrease, near multiple of 10 and 100, inverse, rounding, column subtraction, exchange. (see previous year groups)

Concrete

Adding 100s, 10s and 1s no exchanging:

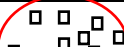
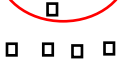
(Use diennes, place value counters or numicon).

Hundreds	Tens	Ones	
			233 + 5
			233 + 40
			233 + 600

Initially add 1, 10 and 100 before moving onto adding multiples of 1, 10 and 100.

Adding 100s, 10s and 1s exchanging:

$$379 + 5 = 384$$

H	T	O
		
		

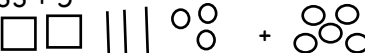
10 ones = 1 ten

(for 379 + 40 then 10 tens = 1 hundred)

Pictorial

Adding 100s, 10s and 1s no exchanging:

Use diennes notation:

$$233 + 5$$


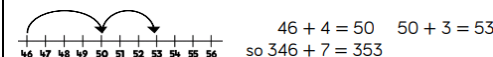
Adding 100s, 10s and 1s exchanging:

Use diennes jottings for adding where:

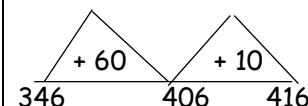
$$\square = 100 \quad | = 10 \quad \bigcirc = 1$$

Number line:

$$346 + 7 = 353$$



$$346 + 70 = 416$$



Abstract

Mental

Counting On

$$137 + 50$$

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

Adjusting:

$$234 + 29 \text{ (add 30 and subtract 1)}$$

$$234 + 99 \text{ (add 100 and subtract 1)}$$

$$234 + 299 \text{ (add 300 and subtract 1)}$$

Using Known Facts And Place Value:

$$282 + 7$$

$$2 + 7 = 9 \text{ so } 282 + 7 = 289$$

$$231 + 50$$

$$30 + 50 = 80 \text{ so } 231 + 50 = 281$$

Partitioning:

$$236 + 133$$

$$200 + 100 = 300$$

$$30 + 30 = 60$$

$$6 + 3 = 9$$

$$\text{So } 300 + 60 + 9 = 369$$

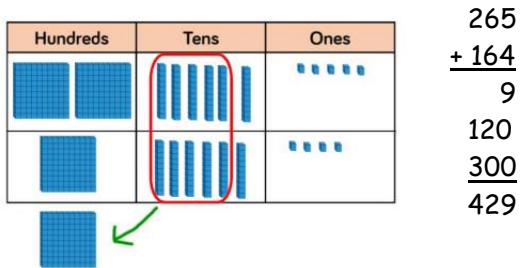
Redistribution:

$$136 + 47 \text{ redistribute to } 133 + 50 = 183$$

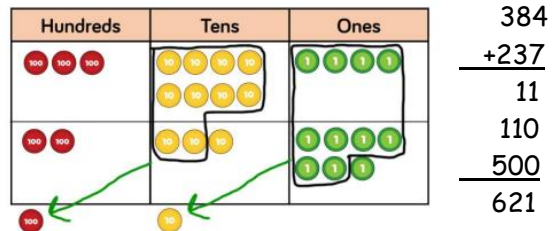
Adding 3-digit numbers:

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:

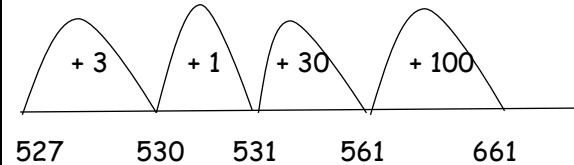
?	
265	164

Use diennes jottings for adding where:

= 100 = 10 = 1

Number line:

527 + 134 = 661



Written

Add numbers with up to 3 digits

No exchanging:

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

Ones to tens	Tens to hundreds
$\begin{array}{r} 527 \\ + 134 \\ \hline 11 \\ 50 \\ \hline 600 \\ 661 \end{array}$	$\begin{array}{r} 362 \\ + 451 \\ \hline 3 \\ 110 \\ \hline 700 \\ 813 \end{array}$