

## Year 2 Addition and Subtraction Knowledge Organiser.

Addition and Subtraction	Knowledge Organiser		
Key Vocabulary	Addition and Subtraction Bonds to 20		
Add		$15 + 5 = 20$ $20 - 5 = 15$ $20 - 15 = 5$	
Total			$7 + 5 = 12$ $12 - 5 = 7$ $12 - 7 = 5$
Make			
Plus			
Sum		$4 + 3 = 7$	
More			
Altogether			
Difference			
Leave			
Subtract			
Difference between			
Less			
Minus			
Take away			
Mentally, Orally			
Column Addition			
Column Subtraction			
Estimate			
Inverse operation			
Solve problems			
Number facts			
Place Value			
Methods			
	<h3>Add 2-digit and 1-digit</h3>	<h3>Add 2-digit numbers</h3> <p><math>34 + 28 = 62</math></p> <p>3 tens and 4 ones add 2 tens and 8 ones equals 5 tens and 12 ones becomes 6 tens and 2 ones</p>	<h3>Subtract 2-digit numbers</h3> <p><math>62 - 28 = 34</math></p> <p>6 tens and 2 ones becomes 5 tens and 12 ones subtract 2 tens and 8 ones equals 3 tens and 4 ones</p>
	<h3>Subtract 1-digit from 2-digit</h3>		
Addition and Subtraction Bonds to 100			
	$2 + 8 = 10$ so $20 + 80 = 100$	$32 + 68 = 100$ 3 tens and 2 ones + 6 tens and 8 ones = 9 tens and 10 ones = 10 tens = one hundred	

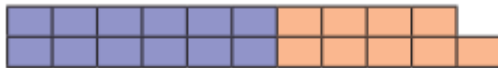


# Addition and Subtraction

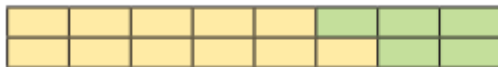
# Knowledge Organiser

## Mental Methods

### Compare Number Sentences



$$6 + 4 < 6 + 5$$



$$5 + 3 = 6 + 2$$

### Related facts

$$5 + 4 = 9 \text{ so } 50 + 40 = 90$$



### Add 3 1-digit numbers



$$9 + 5 + 3 = 17$$

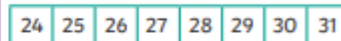
## More or Less/ Add and Subtract 1s and 10s

### Add and subtract 1s

$$24 + 1 = 25$$

$$24 + 2 = 26$$

$$24 + 3 = 27$$



$$37 - 1 = 36$$

$$37 - 2 = 35$$

$$37 - 3 = 34$$



There are 7 flowers in a vase. One more is added.

Now there are 8 flowers.



### 10 More or Less

30	40	50	60	70	80
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47	57	67	77	87	97
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The ones digit stays the same.

10 less	Number	10 more
1	11	21
34	44	54

Take care when crossing hundreds:

86	96	106	116
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### Add and Subtract 10s

10	30	50	70	90
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3	33	63	93
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Tens	Ones

$$27$$

$$+ 40$$

$$\hline 67$$

Tens	Ones

$$72$$

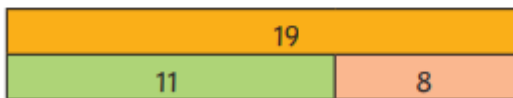
$$- 30$$

$$\hline 42$$

Crossing hundreds:

74	94	114	134
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## Check Calculations



$19 - 8 = 11$  can be checked using  $8 + 11 = 19$



$32 + 5 = 82$  x Spot that 5 tens have been added not 5 ones

$28 - 26 = 12$  x Spot that 28 and 26 are very close together, so difference won't be 12.

$37 - 4 = 41$  x Spot that if subtracting 4 the answer will be smaller.

$68 - 40 = 64$  x Spot that 4 ones have been subtracted and not 4 tens.