

# Year 2 maths newsletter



## Autumn

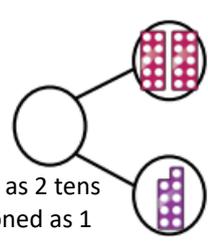
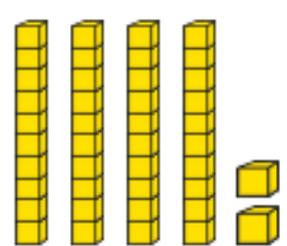
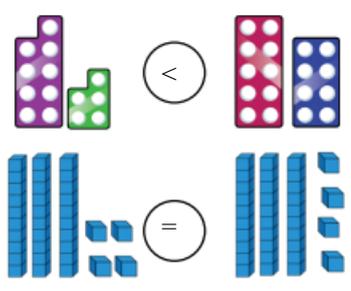
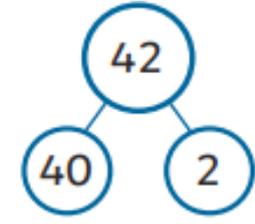
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Welcome back to the new school year.  
This half-term will be split into two maths topics, 'place value' and 'addition and subtraction.'

Any queries please email either:  
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# Number: place value

The value of each digit depending on its position within a number.

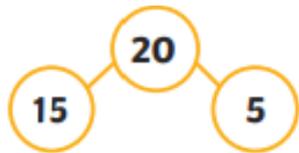
<p>Read and write numbers up to 100 in numerals and in words.</p> <table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">numerals</td> <td style="width: 50%; padding: 5px;">words</td> </tr> <tr> <td style="padding: 5px;">58</td> <td style="padding: 5px;">Fifty-eight</td> </tr> </table>	numerals	words	58	Fifty-eight	<p>Represent numbers to 100</p> <div style="text-align: center; font-size: 2em; font-weight: bold; margin: 10px 0;">42</div> <div style="text-align: center; font-size: 1.5em; color: purple; margin: 10px 0;">forty-two</div>																													
numerals	words																																	
58	Fifty-eight																																	
<p>Tens and ones using addition</p> <p>Children will build upon what they have learnt about each digit within a number and begin to partition numbers in different ways.</p> <div style="text-align: right; margin-top: 20px;">  </div> <p>For example, 29 can be partitioned as 2 tens and 9 ones or it can also be partitioned as 1 ten and 19 ones.</p>	<div style="text-align: center; font-size: 1.5em; color: orange; margin: 10px 0;">four tens two ones</div> <div style="text-align: center; margin-top: 10px;">  </div>																																	
<p>Compare and order objects and numbers.</p> <p>Children are expected to compare a variety of objects using, 'more than', 'less than' and 'equal to' before moving onto to comparing numbers.</p> <div style="text-align: center; margin-top: 20px;">  <p style="font-size: 1.2em; color: blue; margin-top: 10px;"><math>37 &lt; 39 &lt; 42</math></p> </div> <div style="text-align: center; margin-top: 20px;"> <table style="margin: auto; border-collapse: separate; border-spacing: 10px 5px;"> <tr> <td style="border: 1px solid black; padding: 5px; text-align: center;">45</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">48</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">52</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">53</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">61</td> </tr> <tr> <td style="font-size: 0.8em;">smallest</td> <td></td> <td></td> <td></td> <td style="font-size: 0.8em;">greatest</td> </tr> </table> </div>	45	48	52	53	61	smallest				greatest	<div style="text-align: center; margin-top: 20px;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <th style="padding: 5px;">Tens</th> <th style="padding: 5px;">Ones</th> </tr> <tr> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> </table> </div> <div style="text-align: center; margin-top: 20px;">  </div>	Tens	Ones																					
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<p>Counting</p> <p>Children revisit counting in 2s, 5s, and 10s.</p> <p><b>Counting in 2s</b></p> <table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px 10px;">0</td> <td style="border: 1px solid black; padding: 2px 10px;">2</td> <td style="border: 1px solid black; padding: 2px 10px;">4</td> <td style="border: 1px solid black; padding: 2px 10px;">6</td> <td style="border: 1px solid black; padding: 2px 10px;">8</td> <td style="border: 1px solid black; padding: 2px 10px;">10</td> <td style="border: 1px solid black; padding: 2px 10px;">12</td> <td style="border: 1px solid black; padding: 2px 10px;">14</td> <td style="border: 1px solid black; padding: 2px 10px;">16</td> <td style="border: 1px solid black; padding: 2px 10px;">18</td> <td style="border: 1px solid black; padding: 2px 10px;">20</td> </tr> </table> <p><b>Counting in 5s</b></p> <table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px 10px;">0</td> <td style="border: 1px solid black; padding: 2px 10px;">5</td> <td style="border: 1px solid black; padding: 2px 10px;">10</td> <td style="border: 1px solid black; padding: 2px 10px;">15</td> <td style="border: 1px solid black; padding: 2px 10px;">20</td> <td style="border: 1px solid black; padding: 2px 10px;">25</td> <td style="border: 1px solid black; padding: 2px 10px;">30</td> <td style="border: 1px solid black; padding: 2px 10px;">35</td> <td style="border: 1px solid black; padding: 2px 10px;">40</td> <td style="border: 1px solid black; padding: 2px 10px;">45</td> <td style="border: 1px solid black; padding: 2px 10px;">50</td> </tr> </table> <p><b>Counting in 10s</b></p> <table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px 10px;">0</td> <td style="border: 1px solid black; padding: 2px 10px;">10</td> <td style="border: 1px solid black; padding: 2px 10px;">20</td> <td style="border: 1px solid black; padding: 2px 10px;">30</td> <td style="border: 1px solid black; padding: 2px 10px;">40</td> <td style="border: 1px solid black; padding: 2px 10px;">50</td> <td style="border: 1px solid black; padding: 2px 10px;">60</td> <td style="border: 1px solid black; padding: 2px 10px;">70</td> <td style="border: 1px solid black; padding: 2px 10px;">80</td> <td style="border: 1px solid black; padding: 2px 10px;">90</td> <td style="border: 1px solid black; padding: 2px 10px;">100</td> </tr> </table>		0	2	4	6	8	10	12	14	16	18	20	0	5	10	15	20	25	30	35	40	45	50	0	10	20	30	40	50	60	70	80	90	100
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0	10	20	30	40	50	60	70	80	90	100																								

If you have any questions on how to support your child at home, please contact your child's teacher.

## Number: addition and subtraction

### Fact families—number bonds to 20

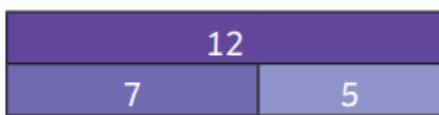
Children apply their understanding of known subtraction facts within 20 to identify all related facts.



$$15 + 5 = 20$$

$$20 - 5 = 15$$

$$20 - 15 = 5$$



$$7 + 5 = 12$$

$$12 - 5 = 7$$

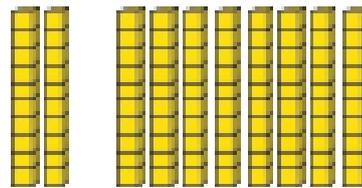
$$12 - 7 = 5$$

### Number bonds to 100 (tens)

Making the link between number bonds to 10 and the tens bonds to 100.

$$2 + 8 = 10$$

$$\text{So, } 20 + 80 = 100$$



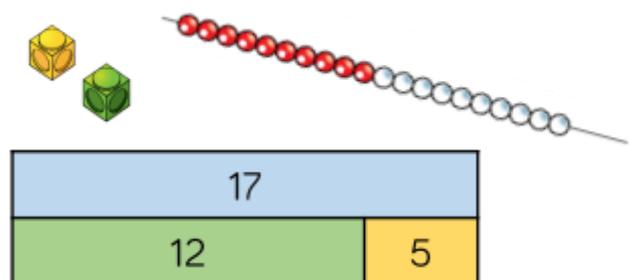
### 10 more and 10 less

Children will recognise the pattern of which digit changes when finding 10 more or less.

10 less	Number	10 more
1	11	21
34	44	54

### Checking answers.

Children are encouraged to check their answers using a range of resources and also the inverse operation.



### Addition and subtraction 2-digit numbers.

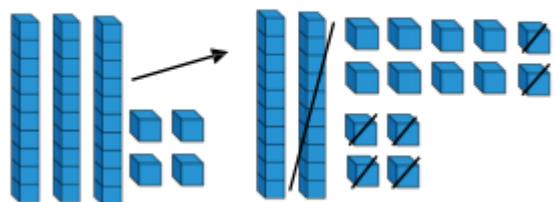
	Tens	Ones
+		

Children build upon their previous knowledge of place value to support them with the addition and subtraction of 2-digit numbers. Children will first explore these concepts through physical resources before moving onto pictorial representations.

Once confident, children are introduced to the idea of exchanging/regrouping. This is also explored using physical and pictorial representations.

The ten has been regrouped into 10 ones so the calculation can be completed.

$$34 - 16 = ?$$



## Vocabulary

The following vocabulary is used in the classroom to support learning. Please continue to support your child at home by using the same vocabulary.

Place value	Addition and subtraction
hundreds, tens, ones	add, altogether, sum, total
xero	subtract, takeaway, difference
partition	column
greater than/ less than	mentally
stands for/ represents	estimate
digit	inverse operation

## Further support at home

To support your child at home, we encourage the use of the classroom vocabulary and the same methods/ strategies of calculation.

When working with your child at home, you can ask them the following question starters to further demonstrate their understanding.

- How do you know...
- How are 17 and 70 different? Can you show me.
- What pattern do you notice?
- Can this be done in a different way?
- What other strategies can we use to work out?
- What does ... represent?
- Can you explain what would happen if...
- Which is your favourite method? Why?
- What is the key information in the question?

## Times tables practise

You can help support your child at home with practising the 2s, 5s and 10s times tables.

There are many websites to help support your child at home including times tables games on purple mash and times table rock stars.

<https://www.purplemash.com/login/>

<https://trockstars.com/>

If you have any questions on how to support your child at home or need any log in information, please contact your child's class teacher.