

Year 3 maths newsletter



Autumn

1

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 1000 in numerals and in words.</p>	<p>Recognise the place value of each digit in a three-digit number.</p>									
<table border="0"> <tr> <td style="text-align: center;">numerals</td> <td style="text-align: center;">words</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">256</td> <td style="text-align: center; vertical-align: middle;">Two hundred and fifty-six</td> </tr> </table>	numerals	words	256	Two hundred and fifty-six	<div style="text-align: center;"> </div> <p>Children will be able to identify patterns when working out 1, 10 or 100 more or less.</p>					
numerals	words									
256	Two hundred and fifty-six									
<p>Find 1, 10 or 100 more or less than a given number.</p>	<p>Identify, represent and estimate numbers using different representations.</p>									
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Ten Less</th> <th></th> <th>Ten More</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>120</td> <td>130</td> <td>140</td> </tr> </tbody> </table> <p>Children will compare numbers and objects using 'more than' and 'less than' and 'equal to.'</p>	Ten Less		Ten More				120	130	140	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Children will use their knowledge of number sequencing to make estimations.</p> </div> <div style="width: 45%;"> <p>500 + 80 + 7</p> </div> </div> <p>Children are encouraged to represent numbers using physical resources, drawing pictures and in number.</p>
Ten Less		Ten More								
120	130	140								
<p>Compare and order numbers to 1000</p> <p>Children will compare numbers and objects using 'more than' and 'less than' and 'equal to.'</p> <div style="text-align: center;"> <p>ordering numbers in ascending and descending order.</p> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p>↑ ascending order</p> <p>12, 25, 110, 234, 300</p> </div> <div style="text-align: center;"> <p>↓ descending order</p> <p>300, 234, 110, 25, 12</p> </div> </div>										

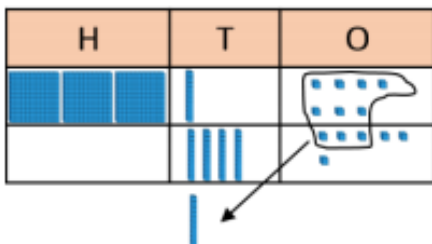
If you have any questions on how to support your child at home, please contact your child's teacher.

Number: addition and subtraction

Children will continue to develop their understanding of addition and subtraction and this year they will be introduced to formal written methods.

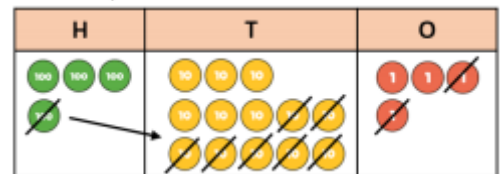
Concrete and pictorial methods

Children will first look at addition and subtraction visually. They will first use physical resources such as counters before moving on to drawing out the problem.



$317 + 46 = ?$ The hundreds, tens and ones have been drawn out. As there are more than 10, ones these have been regrouped/ exchanged into the 10s.

Similarly with subtraction, regrouping and exchanging is used visually to show the taking of a hundred and exchanging into 10 new tens.



$$434 - 72 = ?$$

Formal methods.

The formal column method is introduced in Year 3 as the expanded method. This supports children in understanding the place value of each digit in the calculation.

Addition column method

Subtraction column method

1.	3	4	6	+	8	7	=
		↓	↓	↓			
		H	T	O			
		3	4	6			
	+		8	7			
				1	3		← (6 + 7)
(To supp	+		1	2	0		← (40 + 80)
top or mc			3	0	0		← (300 + 0)
			4	3	3		

When exchanging, they are taught that when we go next door.

1.	8	3	4	-	5	6	=
		↓	↓	↓			
		H	T	O			
		8	3	4			
	-		5	6			
					8		← (14 - 6) with exchange
	+		7	0			← (120 - 50) with exchange
			7	0	0		← (700 - 0)
			7	7	8		

When exchanging, they are taught that when we go next door.

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
numeral	subtract, takeaway, difference
number	column
sequence	regroup/ exchange
stands for/ represents	estimate
ascending/ descending	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...
- Can you estimate...
- 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?
- How can we check our answers are correct?

Times tables practise

Times Table Rock Stars is a fun and interactive way for your child to practise their times tables at home. Year 3 focuses on the 3s, 4s and 8s times tables. Please continue to practise and support your child with these at home.

<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.