## Stage 4

Children need to apply knowledge of number bonds to work out what needs to be added to a decimal number to make a whole number e.g. $0.2+0.8$
Children need to move from expanded column method to column method once in this stage. Start with 2 and 3 digit numbers and then children should be able to apply their skills
to solve problems with any 4 digit numbers.
Addition
Add the numbers in each column starting with the ones. HTO
16 ones $=1$ ten and 6 ones
368
add the ten to the ones column by writing it +
underneath. Write the 6 ones in the ones column.
13 tens $=1$ hundred and 3 tens
Add I to the hundreds column and write the 3 tens below the 10 s columns.
Add the hundreds and write the total below the
hundreds column.

Subtraction
Start with the ones. 4-2 $=2$.
Move to the tens. 20-70 can't be done
H T 0
so exchange one hundred for 10 tens.
$23^{1} 24$
Now there are 12 tens. $12-7=5$.
As I hundred has been exchanged
2.7_2
there are now only 2 hundreds
remaining. 2-2 $=0$
052
$\downarrow$
$24{ }^{3}{ }^{1} 56$
$\begin{array}{r}-1385 \\ \hline 1071 \\ \hline\end{array}$

## Stage 5/6

Children need to use their knowledge of doubles and near multiples of 10 (numbers in the $10 x$ table).
Build on use of the column method with numbers up to 10,000 and decimal numbers.


Encourage children to recognise when they can use metal methods instead of a written method (column method).


Money and time always on a number line! Teach children
to count on to solve problems. E.g.


The trip starts at 9.05 and lasts 6 hours and
10 minutes. What lime does it finish?


## Calculation Policy



## Addition and Subtractic

This policy is designed to help parents/guardir support their children with addition and subbraction homework. As children are taugh according to their ability and not their age, please ask your child's teacher what stage yo child is currently working at. We teach childr, methods that build up on their existing skills a understanding so please make sure children, not miss out stages as this could lead to gaps their learning/ understanding. If you are unsi about any of the methods please speak to you child's class teacher.


Peterborough Diocese
Education Trust
ACHIEVING MORE TOGETHER

## Early Years

Children need to learn all of the pairs of numbers which add to 10 (number bonds) e.g. $8+2$

Provide lots of opportunities for children to collect groups of objects and then combine them to find totals up to 20 . Encourage children to organise groups of objects in to rows and columns so that they are easier to count.


When taking away (subbracting), children should be able to physically move the objects away and count those remaining to find the answer.


## Stage 1

Children need to learn all of the pairs of numbers which add to make 20 (number bonds) using their knowledge of number bonds to 10 .
Teach children how to use number lines alongside practical resources and drawings. Solving subbraction below the number line and addition above the number line helps children to remember whether they are counting forwards or backwards. Children should only work with numbers to 20 at this stage.


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## Stage 2

Children need to learn pairs of numbers in the 10 times table (mulliples of 10 ) which total 100 . E.g. $60+40$ Encourage children to count in steps on a number line using their knowledge of number bonds and number patterns to help them. Children should work with numbers up to 100 at this stage.


26-15


Children need to learn how to split (partition) any 2 digit number in to tens and ones using resources to improve their understanding.


Once children can partition numbers, they can use this to support them with adding and subtracting 2 two digit numbers.


## Stage 3

Children need to recognise pairs of numbers wh total 100 . e.g. $32+68$
Children now need to split (partition) 3 digit number: hundreds, tens and ones. They should only work with numbers to 1000 at this stage. When possible, encour children to use resources to improve their understand Packs of straws or pasta are a great way of represe 100. Children must learn to work from right to left s

$I_{f}$ the ones column totals more than 9 , the extra 10 i written below the tens column as shown in the examp Likewise, if the tens column totals more than 90 the hundred would be written below the hundreds columr

Exchanging


When subbracting, if there are not enough ones or th subtract from children borrow from the column to $t$ See example above.

