THE ASHBY FEDERATION

## CALCULATION - SUBTRACTION POLICY

Approved by: Executive Head Teacher

Last reviewed on: November 2021
Next review due by: November 2023

\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{4}{|c|}{SUBTRACTION STAGE 1} \\
\hline Progression \& Concrete \& Pictorial \& Abstract \\
\hline \begin{tabular}{l}
Uses the language of subtraction - how many are left? \\
Vocabulary: take away, left.
\end{tabular} \& Activities where they have to take some away and then count how many are left. \& \& \\
\hline \begin{tabular}{l}
Subtraction as taking away using objects e.g. \(7-2=5\) because 7 objects take 2 away \(=5\). \\
Vocabulary: fewer, minus, subtract, equals.
\end{tabular} \& Use physical objects, counters, cubes etc to show how objects can be taken away.

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6-2=4
$$ \& Cross out drawn objects to show what has been taken away.

$$
15-3=
$$

$\square$ \& $$
18-3=15
$$

$$
8-2=6
$$ <br>

\hline
\end{tabular}

| Subtraction on a numbered numberline by jumping backwards. | Make the larger number in your subtraction. Move the beads along your bead string as you count backwards in ones. <br> Use counters and move them away from the group as you take them away counting backwards as you go. | Count back on a number line or number track <br> Start at the bigger number and count back the smaller number showing the jumps on the number line. <br> This can progress all the way to counting back using two 2 digit numbers. | Put 13 in your head, count back 4. What number are you at? Use your fingers to help. |
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| Underlying skills <br> - Find one less than a number up to 10. <br> - Children need to learn number facts e.g. learning that 7+4=11 they also know $11-4=7$. | Active Learning Through Models and Images <br> Objects in two colours <br> Imagine one less spot |  |  |





| SUBTRACTION STAGE 4 |  |  |  |
| :---: | :---: | :---: | :---: |
| Progression | Concrete | Pictorial | Abstract |
| Subtraction with regrouping. <br> Vocabulary: exchange, regroup, inverse. | Use Base 10 to start with before moving on to place value counters. Start with one exchange before moving onto subtractions with 2 exchanges. <br> Make the larger number with the place value counters <br> Start with the ones, can I take away 8 from 4 easily? I need to exchange one of my tens for ten ones. | Draw the counters onto a place value grid and show what you have taken away by crossing the counters out as well as clearly showing the exchanges you make. | Children can start their formal written method by partitioning the number into clear place value columns. |
|  |  | When confident, children can find their own way to record the exchange/regrouping. <br> Just writing the numbers as shown here shows that the child understands the method and knows when to exchange/regroup. | Children can start their formal written method by partitioning the number into clear place value columns. $\begin{array}{ccc} 728 & -582 & -146 \\ 4 & 1 & 8 \\ 7 & 2 & 8 \\ 5 & 9 & 2 \\ \hline 1 & 4 & 6 \\ \hline \end{array}$ <br> Moving forward the children use a more compact method. |




| Standard written method for subtracting to 2 dp . |  |  | Ch use the formal written method of column subtraction for subtractions involving money and measure, remembering to insert place holders. $\begin{array}{rrrr}  & 512 & 1 \\ 26 & 6 & 0 \\ - & 2 & 6 & 5 \\ \hline 2 & 3 & 6 & 5 \end{array}$ |
| :---: | :---: | :---: | :---: |
| SUBTRACTION STAGE 6 |  |  |  |
| Progression | Concrete | Pictorial | Abstract |
| Standard written method for larger numbers, including with different numbers of digits knowing that place value columns need to be lined up and place holders inserted to make all numbers have the same number of digits. |  |  |  |
| Standard written method for subtracting decimals with up to 3 digits after the decimal point. |  |  | $\begin{gathered} 6 \cdot 4-2 \cdot 976= \\ 5 \cdot 3 \cdot 4 \\ -2 \cdot 97 \end{gathered}$ |

