©

## THE ASHBY FEDERATION

## CALCULATION - ADDITION POLICY

| Approved by: | Executive Head Teacher |
| :--- | :--- |
| Last reviewed on: | November 2021 |
| Next review due by: | November 2023 |


| ADDITION STAGE 1 |  |  |  |
| :---: | :---: | :---: | :---: |
| Progression | Concrete | Pictorial | Abstract |
| Uses the language of addition -altogether. | Activities where they have to count to find out how many there are altogether. |  |  |
| Relate addition to combining two groups of objects. <br> (Represent using pictures, objects or symbols.) <br> Vocabulary: add, how many more, how much more, addition, equals, addend, sum, total, commutative. | Use cubes to add two numbers together as a group or in a bar. |  | $\begin{aligned} & 4+3=7 \\ & 10=6+4 \end{aligned}$ above, to move into the abstract. |


| Starting at the bigger number and counting on. | St be sm an | rger number on the then count on to the 1 by 1 to find the | $12+5=17$ <br> Start at the larger number on the number line and count on in ones or in one jump to find the answer. | $5+12=17$ <br> Place your larger number in your head and count on the smaller number to find your answer. |
| :---: | :---: | :---: | :---: | :---: |
| Regrouping to make 10. <br> Vocabulary: crossing the tens boundary, bridging. |  | Start with the bigger number and use the smaller number to make 10. | Use pictures or a number line. Regroup or partition the smaller number to make 10. | $7+4=11$ <br> If I am seven, how many more do I need to make 10? How many more do I add on now? |
| Underlying skills <br> - Recognise numbers 0 to 10. <br> - Count reliably up to 10 everyday objects - use 1:1 correspondence by physically moving the object being counted. <br> - Recognise groups of objects below |  | ugh Models and Im |  |  |

ten without counting (subitising).

- Find one more than a given number.
- Find pairs of numbers that add to ten (number bonds).
- Understand that addition can be done in any order.

Decegnie umbers 0 tor 1012345678910




- Understanding that addition can be done in any order.
- Find 10 more than a number.
- Understand which digit changes and how place value is affected when adding ones or tens to a number.



Use partitioning to calculate TU + TU where numbers bridge through ten.
(Represent using pictures, objects or symbols.)


After practically using the base ten blocks and place value counters they can move on to drawing the counters to help them solve the addition.

Start by partitioning the numbers before moving on to clearly show the exchange below the addition.
$30+5$
$+20+7$
$50+12=62$

Move on to an expanded method.

35
$+27$
$12(5+7)$
50 (30+20)
$\underline{62}$
Move on to fomal column addition, clearly showing the exchange below the addition:

35
$+27$
$\frac{62}{1}$

- Mental recall of number bonds.
- Use near doubles.
- Understand that numbers can be partitioned in different ways.
- Being able to add multiples of 10.
- Instant recall of addition facts for numbers up to 10 .
- Being able to add teen's numbers to multiples of 10 mentally.

Active Learning Through Models and Images
$6+4=10$
$2+3=10$
$25+75=100$
$19+2=20$
$6+7=$ double $6+1=13$
$52=50+2$
$52=40+12$
$52=30+22$



| (hundredths and tenths) should line up appropriately underneath each other. <br> - Being able to add multiples of 10. <br> - Count on in decimals to the nearest whole number. <br> - Addition by counting from the largest number and using number facts e.g. $7+4=11$ $70+40=110$ |  |  |  |
| :---: | :---: | :---: | :---: |
| ADDITION STAGE 5 |  |  |  |
| Progression | Concrete | Pictorial | Abstract |
| Standard written method for TU + TU, HTU + HTU, ThHTU + ThHTU and any combination of these. |  |  | $\begin{array}{rr} 368 & 7853 \\ +493 \\ \hline \frac{861}{11} & \frac{+674}{11} \end{array}$ <br> Move on to adding more than 2 numbers. |
| Standard written method for adding to 2dp. |  |  | $\begin{array}{r} 3.45 \\ +2.73 \\ \hline 5.78 \\ \hline 1 \end{array}$ <br> Move on to adding more than 2 numbers. |

- Use known

$$
\begin{aligned}
& 3+2=5 \\
& 30+20=50
\end{aligned}
$$

facts to support addition.

- Be able to

$$
300+200=500
$$

$4+3=7$
$40+30=70$
explain the use of addition.

- Bridging
through 10.
- Carrying
through 10.

| ADDITION 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. |  |  | 231247 |
|  |  |  | +86726 |
|  |  |  | 317973 |
|  |  |  | $1 \quad 1$ |
|  |  |  | Move on to adding more than 2 numbers. |
| Standard written method for adding decimals with up to 3 digits after the decimal point. |  |  | 3.458 |
|  |  |  | $\underline{+2.700}$ |
|  |  |  | 6.158 |
|  |  |  |  |

