

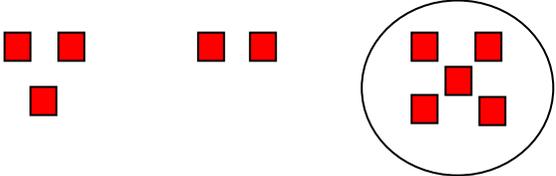
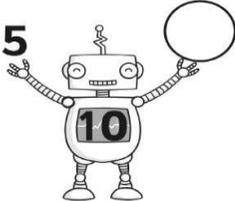
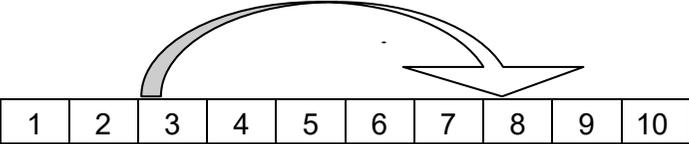
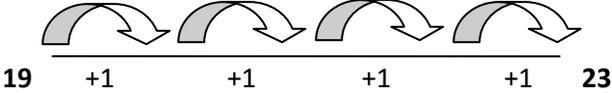
Birkwood Primary



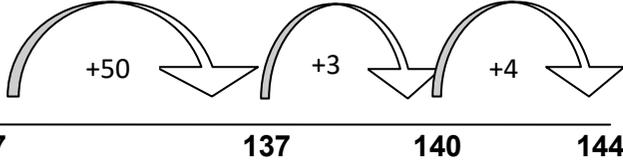
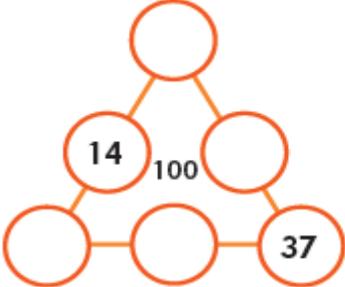
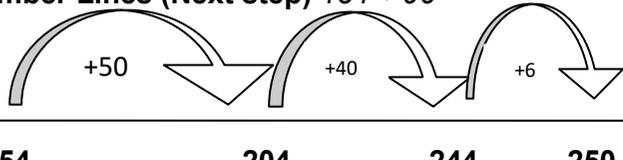
# **ADDITION POLICY**

**UPDATED DECEMBER 2019**

**Birkwood Primary School**  
**Calculation Policy (Addition)**

Stage	Key Vocabulary	How it looks in practice	Resources	Mastery Examples
1	<ul style="list-style-type: none"> <li>-Count on</li> <li>-One more</li> <li>-Add</li> <li>-How many altogether?</li> <li>-Total</li> </ul>	<p><b>Pictorial representations (Up to 10):</b></p>  <p><i>Concrete apparatus models the addition of 3 objects with 2 objects by combining the sets.</i></p>	Counters, Small toys, Buttons, Cubes, Pegs, counters, Numicon, Fingers, Songs, whiteboards.	<p>Can you find the missing number?</p> 
2	<ul style="list-style-type: none"> <li>-How many more?</li> <li>-Addition</li> <li>-Double</li> <li>-Near</li> <li>-One more</li> <li>-Two more</li> <li>-Ten more</li> <li>-Count up</li> <li>-Sum</li> <li>-Total</li> </ul>	<p><b>Number tracks to add on:</b></p>  <p><i>What is 5 more than 3?</i> <i>Count on 5 from 3.</i></p> <p><b>Number lines:</b> 19 + 4 (small steps)</p> 	Counters, Small toys, Buttons, Cubes, Pegs, counters, Numicon, Fingers, Number tracks, Songs, whiteboards.	<p> <math>2 + 3 + 4 = 9</math>  <math>3 + 4 + 5 = 12</math>  <math>5 + 6 + 7 = ?</math> </p> <p>Could you continue the sequence? What calculation would come next? Can you see a pattern?</p>

**Birkwood Primary School**  
**Calculation Policy (Addition)**

Stage	Key Vocabulary	How it looks in practice	Resources	Mastery Examples						
3	<ul style="list-style-type: none"> <li>-Ten more</li> <li>-One hundred more</li> <li>-Count up</li> <li>-Sum</li> <li>-Total</li> <li>-Plus</li> <li>-Place value</li> <li>-Estimate</li> </ul>	<p><b>Partitioning</b>  <math>86 + 57</math>  <math>80 + 50 = 130</math>  <math>6 + 7 = 13</math></p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;"> <p style="text-align: center;"><i>Children can estimate their answers</i>  <math>87 + 63</math>  <math>90 + 60 = 150</math></p> </div> <p><b>One Hundred Grid</b> (Count up the tens column on a 100 grid)  <math>50 + 30 =</math></p> <p><b>Number Lines</b>  <math>87 + 57</math></p>  <p style="text-align: center;"><b>87                      137                      140                      144</b></p>	Number lines, Number grids, Coins, Place value mats, Whiteboards, Coins.	<p>Could you complete the triangle so that all sides make 100?</p> 						
4	<ul style="list-style-type: none"> <li>-Increase</li> <li>-Total</li> <li>- +</li> <li>-Add</li> <li>-Hundreds</li> <li>-Tens</li> <li>-Units</li> </ul>	<p><b>Partitioning</b>            Same as previous but with the introduction of a column method (prompting multiples of 10)</p> $\begin{array}{r} 134 \\ + 76 \\ \hline 10 \\ 100 \\ \hline 210 \end{array}$ <p><b>Number Lines (Next step)</b> <math>154 + 96</math></p>  <p style="text-align: center;"><b>154                      204                      244                      250</b></p>	Number lines, Number grids, Coins, Place value mats, Whiteboards, Cm squared maths books, Cm squared maths books.	<p>Using these digits, find as many answers as you can</p> <div style="text-align: center;"> <table border="1" style="border-collapse: collapse; width: 100px; height: 100px;"> <tr><td style="width: 50px; height: 50px;"></td><td style="width: 50px; height: 50px;"></td></tr> <tr><td style="width: 50px; height: 50px;"></td><td style="width: 50px; height: 50px;"></td></tr> </table> <hr style="width: 100%;"/> <table border="1" style="border-collapse: collapse; width: 100px; height: 100px;"> <tr><td style="width: 50px; height: 50px;"></td><td style="width: 50px; height: 50px;"></td></tr> </table> <p style="text-align: center; font-size: 1.2em;"><b>2 8 7 5</b></p> </div>						

**Birkwood Primary School**  
**Calculation Policy (Addition)**

Stage	Key Vocabulary	How it looks in practice		Resources	Mastery Examples
5	-Increase -Total - + -Add -Hundreds -Tens -Units	<b>Partitioning using column addition. (HTU)</b>		Number lines, Number grids, Coins, Place value mats, Whiteboards, Cm squared maths books.	Using the digits 1-9 (Once) to make 3 digit numbers, how close can you get to 1300?  987 + 312= 1299  Can you get closer?
		<b>Introduction:</b> $\begin{array}{r} 115 \\ + 276 \\ \hline 11 \\ 80 \\ 300 \\ \hline 391 \end{array}$	<b>Moving to:</b> $\begin{array}{r} 115 \\ + 276 \\ \hline 391 \\ 1 \end{array}$		
6	-Increase -Total - + -Add -Hundreds -Tens -Units -Ten more -One hundred more -One thousand more	<b>Column addition (Thousands)</b>		Number lines, Number grids, Coins, Place value mats, Whiteboards, Cm squared maths books.	Could you find the missing number?  4658 + _____ = 8907  3498 + _____ = 9865  9674 + _____ = 10969
		<b>Introduction:</b> $\begin{array}{r} 2115 \\ + 3276 \\ \hline 11 \\ 80 \\ 300 \\ 5000 \\ \hline 5391 \end{array}$	<b>Moving to:</b> $\begin{array}{r} 2115 \\ + 3276 \\ \hline 5391 \\ 1 \end{array}$		

**Birkwood Primary School**  
**Calculation Policy (Addition)**

Stage	Key Vocabulary	How it looks in practice	Resources	Examples
7	-Increase -Total - + -Add -Ten more -One hundred more -One thousand more -Tenths Hundredths	<b>Partitioning using column addition:</b>  $\begin{array}{r} 21.15 \\ + 32.76 \\ \hline \pounds 53.91 \\ \phantom{\pounds} 1 \end{array}$  <i>*Children will be prompted to estimate using rounding. This will allow them to check their answers to ensure they are realistic.</i>	Number lines, Number grids, Coins, Place value mats, Whiteboards.	John buys a pair of shorts at £14.99, a shirt at 13.99 and some flip flops. He pays with two £20 notes and receives £3.26 change.  How much were the flip flops?

## Monitoring and Review

The Governing Body reviews this policy every 2 years. The Governors may, however, review the policy earlier than this, if the government introduces new regulations, or if the governing body receives recommendations on how the policy might be improved. This policy will be reviewed in December 2021.

Signed \_\_\_\_\_ Headteacher                      Date \_\_\_\_\_

Signed \_\_\_\_\_ Chair of Governors                      Date \_\_\_\_\_