

St Mary's RC Primary School Written Calculation Policy - Addition

Year		How it will look in written form
Y1	<ul style="list-style-type: none"> add one-digit and two-digit numbers to 20, including zero understand the effect of adding zero. Methods used for addition– link to VCP (U+U, U-U within 20, Teens + U, Teens subtract U) 	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>A1: Objects & Pictures</p> </div> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>A2a: Counting On</p> </div> </div>
Y2	<ul style="list-style-type: none"> add numbers using concrete objects, pictorial representations, and mentally, (with number lines or jottings), including: <ul style="list-style-type: none"> a two-digit number & ones a two-digit number and tens two two-digit numbers adding three one-digit numbers Refer to VCP for methods. 	<div style="display: grid; grid-template-columns: 1fr 1fr; gap: 5px;"> <div style="border: 1px solid black; padding: 5px;"> <p>A3: Forwards Jump</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>A4: Partitioning</p> $43 + 24 = 67$ $40 + 20 = 60$ $3 + 4 = 7$ <hr style="width: 100%;"/> 67 </div> <div style="border: 1px solid black; padding: 5px;"> <p>A5: Partition Jot</p> $43 + 24 = 67$ </div> <div style="border: 1px solid black; padding: 5px;"> <p>A6: Expanded Column</p> $\begin{array}{r} 43 \\ + 24 \\ \hline 60 \\ + 7 \\ \hline 67 \end{array}$ </div> </div>
Y3	<ul style="list-style-type: none"> add numbers mentally, including: <ul style="list-style-type: none"> a three-digit number and ones a three-digit number and tens a three-digit number and hundreds add numbers with up to three digits, using formal written methods including expanded method of columnar addition where appropriate – ie. Only use when a mental method or jotting is not more efficient 	<div style="display: grid; grid-template-columns: 1fr 1fr 1fr; gap: 5px;"> <div style="border: 1px solid black; padding: 5px;"> <p>A6: Expanded Column</p> $\begin{array}{r} 687 \\ + 248 \\ \hline 120 \\ 800 \\ 935 \end{array}$ </div> <div style="border: 1px solid black; padding: 5px;"> <p>A4c: Partitioning</p> $687 + 248 = 935$ $600 + 200 = 800$ $80 + 40 = 120$ $7 + 8 = 15$ <hr style="width: 100%;"/> 935 </div> <div style="border: 1px solid black; padding: 5px;"> <p>A5c: Partition Jot</p> $687 + 248 = 935$ </div> <div style="border: 1px solid black; padding: 5px;"> <p>A3c: Forwards Jump</p> $687 + 248 = 935$ </div> <div style="border: 1px solid black; padding: 5px;"> <p>A7: Column Addition</p> $\begin{array}{r} \text{H T U} \\ 687 \\ + 248 \\ \hline 935 \end{array}$ </div> </div>
Y4	<ul style="list-style-type: none"> add numbers with up to 4 digits using the formal written methods of columnar addition (+ money / decimals) where appropriate – ie. Only use when a mental method or jotting is not more efficient Continue to add mentally using jottings if appropriate. Use understanding of the value of the number to decide when to calculate mentally and when to use written method. 	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>A5d: Partition Jot</p> $4873 + 3762 = 8635$ </div> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>A7d: Column Addition</p> $\begin{array}{r} \text{Th H T U} \\ 4873 \\ + 3762 \\ \hline 8635 \\ \hline 11 \end{array}$ </div> </div>
Y5	<ul style="list-style-type: none"> add whole numbers with more than 4 digits, (and decimals with up to 3 dp) including using formal written methods (columnar addition and subtraction) add numbers mentally with increasingly large numbers 	<div style="display: grid; grid-template-columns: 1fr 1fr 1fr; gap: 5px;"> <div style="border: 1px solid black; padding: 5px;"> <p>A3g: Decimal Jump</p> $5.65 + 3.29 = 8.94$ </div> <div style="border: 1px solid black; padding: 5px;"> <p>A4f: Partitioning</p> $4.8 + 3.8 = 8.6$ $4 + 3 = 7$ $0.8 + 0.8 = 1.6$ <hr style="width: 100%;"/> 8.6 </div> <div style="border: 1px solid black; padding: 5px;"> <p>A5g: Partition Jot</p> $5.65 + 3.29 = 8.94$ </div> <div style="border: 1px solid black; padding: 5px;"> <p>A7e: Column Addition</p> $\begin{array}{r} \text{M H T T H T U} \\ 787567 \\ + 446278 \\ \hline 1233845 \end{array}$ </div> <div style="border: 1px solid black; padding: 5px;"> <p>A7i: Column Addition</p> $\begin{array}{r} \text{£} \\ 38.25 \\ + 27.46 \\ \hline 65.71 \end{array}$ </div> </div>
Y6	<ul style="list-style-type: none"> add any set of whole numbers and decimals using an appropriate written method perform mental calculations, including with mixed operations and large numbers Continue to use written methods to add whole numbers. Use written methods to add decimals. 	

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