



Year Four Autumn Term Arithmetic		Knowledge Organiser Vocabulary	Knowledge Organiser Visuals												
Week 1	National Curriculum	<p>Addition Recall from Y3: add numbers with up to 3 digits, using formal written methods of columnar addition. Teach for Y4: Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</p>	<p>Add Addition Regroup</p>												
Week 2	National Curriculum Statements	<p>Subtraction Recall from Y3: add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction Teach for Y4: Subtract numbers with up to 4 digits using the formal written methods of columnar subtraction.</p>	<p>Subtract Subtraction Exchange</p>												
	National Curriculum Statements		<table border="1"> <thead> <tr> <th>Written Calculations</th> <th>Addition</th> <th>Subtraction</th> </tr> </thead> <tbody> <tr> <td>Below Y4</td> <td> <p>Expanded column addition.</p> $\begin{array}{r} 422 + 125 \\ \hline 400 + 20 + 2 \\ + 100 + 20 + 5 \\ \hline 500 + 40 + 7 \\ \hline 547 \end{array}$ </td> <td> <p>Expanded column subtraction.</p> $\begin{array}{r} 827 - 356 \\ \hline 700 \\ - 300 + 20 + 7 \\ \hline 400 + 70 + 1 \\ \hline 471 \end{array}$ </td> </tr> <tr> <td>At Y4</td> <td> <p>Column addition.</p> $\begin{array}{r} 9874 \\ + 1294 \\ \hline 11168 \end{array}$ </td> <td> <p>Column subtraction.</p> $\begin{array}{r} 6925 \\ - 4619 \\ \hline 2306 \end{array}$ </td> </tr> <tr> <td>Above Y4</td> <td> <p>Column addition</p> $\begin{array}{r} 1721 \\ + 431 \\ \hline 2152 \end{array}$ </td> <td> <p>Column subtraction</p> $\begin{array}{r} 98465 \\ - 3924 \\ \hline 94541 \end{array}$ </td> </tr> </tbody> </table>	Written Calculations	Addition	Subtraction	Below Y4	<p>Expanded column addition.</p> $\begin{array}{r} 422 + 125 \\ \hline 400 + 20 + 2 \\ + 100 + 20 + 5 \\ \hline 500 + 40 + 7 \\ \hline 547 \end{array}$	<p>Expanded column subtraction.</p> $\begin{array}{r} 827 - 356 \\ \hline 700 \\ - 300 + 20 + 7 \\ \hline 400 + 70 + 1 \\ \hline 471 \end{array}$	At Y4	<p>Column addition.</p> $\begin{array}{r} 9874 \\ + 1294 \\ \hline 11168 \end{array}$	<p>Column subtraction.</p> $\begin{array}{r} 6925 \\ - 4619 \\ \hline 2306 \end{array}$	Above Y4	<p>Column addition</p> $\begin{array}{r} 1721 \\ + 431 \\ \hline 2152 \end{array}$	<p>Column subtraction</p> $\begin{array}{r} 98465 \\ - 3924 \\ \hline 94541 \end{array}$
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Week 3	National Curriculum	<p>Multiplication Tables Recall from Y3: 4 and 8 Teach for Y4: 6, 7 and 9. Recall multiplication facts up to 12 x 12</p>	<p>Multiplication table Multiply Multiplied by</p>												
	Know Your Facts	<p>Chant the times tables. Mix them up!</p> <p>Call and Response Statements Multiplication Tables Anything multiplied by zero is ... zero Anything multiplied by one ... stays the same</p>													
Week 4	National Curriculum	<p>Add Fractions Recall from Y3: add fractions with the same denominator within one whole. Teach for Y4: add and fractions with the same denominator.</p>	<p>Numerator Denominator Whole</p>												



Week 7	National Curriculum Statements	Division Recall from Y3: write and calculate mathematical statements for division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. Teach for Y4: - Why are we doing it then? Children still need to apply their multiplication skills to division.	Divide Division Exchange	
	Know Your Facts	Call and Response Statements Division Anything divided by zero is ... zero Anything divide by one ... stays the same		
Week 8	National Curriculum Statements	Inverse Addition and Subtraction Recall from Y3: solve missing number problems. Teach for Y4: estimate and use inverse operations to check answers to a calculation	Inverse	
Week 9		Consolidation Week		



Week 10

Consolidation Week

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