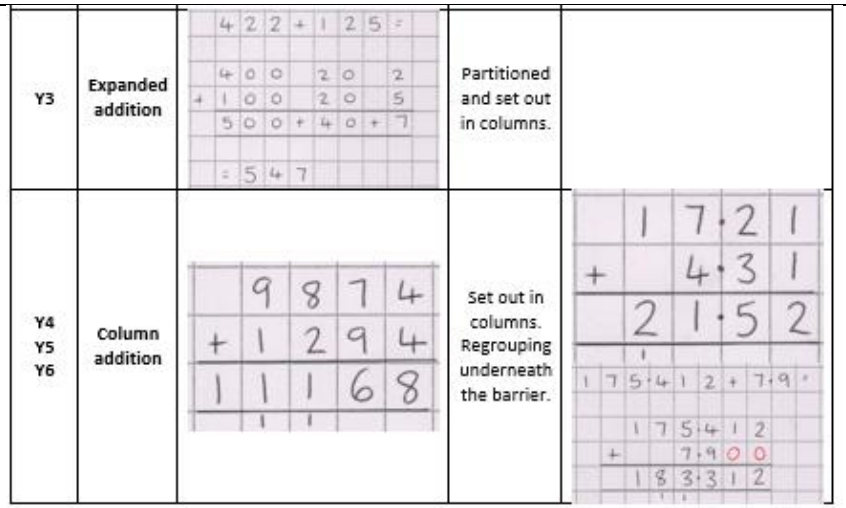
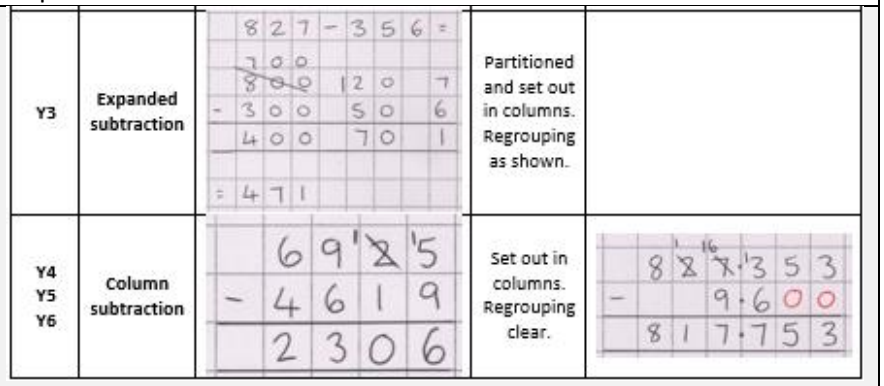
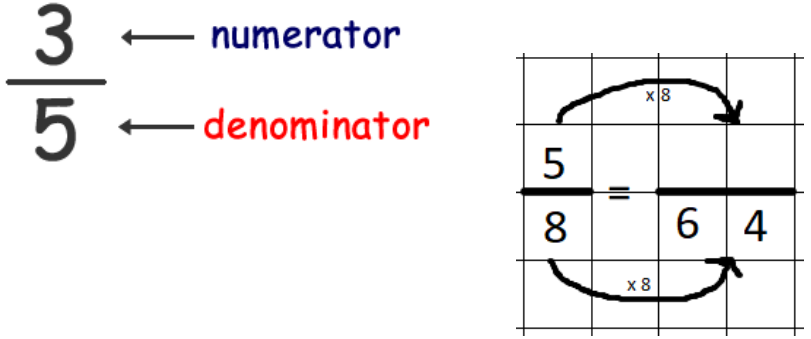
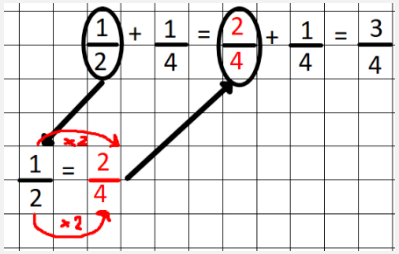
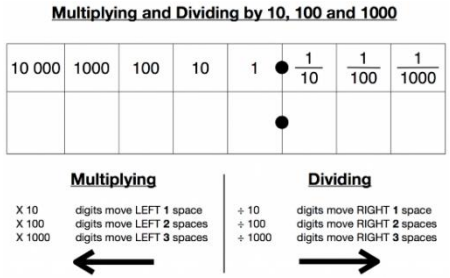
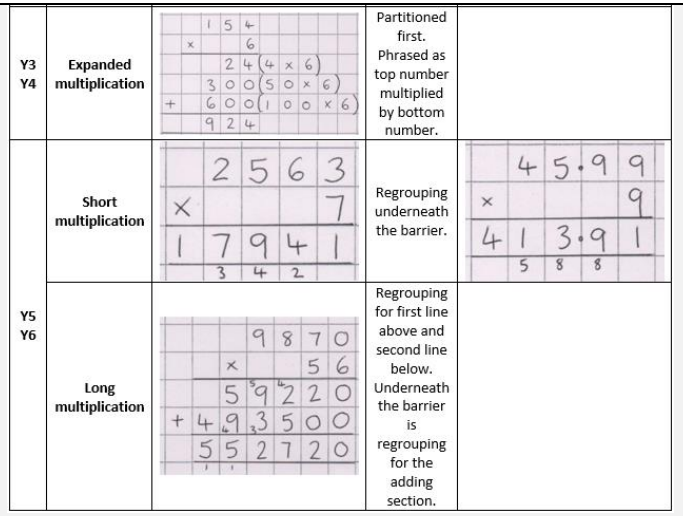
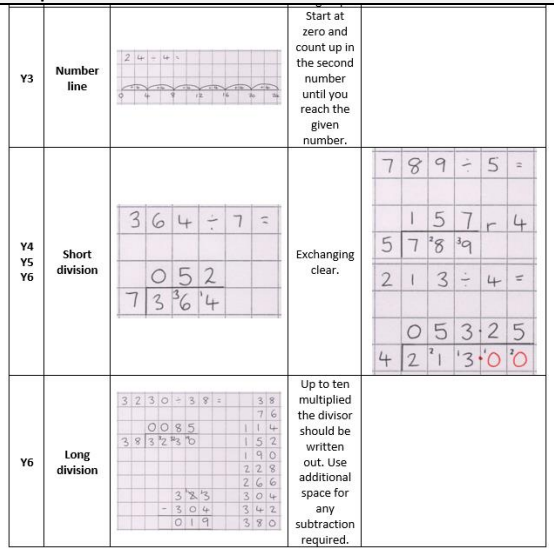
Year Five Autumn Term Arithmetic			Knowledge Organiser Vocabulary	Knowledge Organiser Visuals
Week 1	National Curriculum Statements	<u>Addition</u> **Teach for Y4:** add and subtract numbers with up to 4 digits using the formal written methods of columnar addition where appropriate **Teach for Y5:** add whole numbers with more than 4 digits, including using formal written methods **Teach for Y6:** use their knowledge of the order of operations to carry out calculations involving the 4 operations	Addition Add Regroup	 Note – this is to illustrate the written method, not necessarily the level to pitch it at.
Week 2	National Curriculum Statements	<u>Subtraction</u> **Teach for Y4:** add and subtract numbers with up to 4 digits using the formal written methods of columnar subtraction where appropriate **Teach for Y5:** subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) **Teach for Y6:** use their knowledge of the order of operations to carry out calculations involving the 4 operations	Subtraction Subtract Exchange	 Note – this is to illustrate the written method, not necessarily the level to pitch it at.

Week 3	National Curriculum Statements	<u>Equivalent Fractions</u> **Teach for Y4:** recognise and show, using diagrams, families of common equivalent fractions **Teach for Y5:** identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths **Teach for Y6:** -	Equivalent Numerator Denominator Equivalent Arrows	
	Know Your Facts	**Call and Response Statements** Equivalent means the … **same** The top number is the … **numerator** The bottom number is the … **denominator** Whatever I do to the numerator … **I do to the denominator** (swap it around)		
Week 4	National Curriculum Statements	<u>Add and Subtract Fractions</u> **Teach for Y4:** add and subtract fractions with the same denominator **Teach for Y5:** add and subtract fractions with the same denominator and denominators that are multiples of the same number **Teach for Y6:** add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	Equivalent Numerator Denominator Equivalent Arrows Whole Common Denominator	
	Know Your Facts	**Call and Response Statements** The top number is the … **numerator** The bottom number is the … **denominator**		
Week 5	National Curriculum Statements	<u>Multiply and Divide by 10, 100 and 1000</u> **Teach for Y4:** find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths **Teach for Y5:** multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 **Teach for Y6:** identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places	Multiply Divide Place Value Digits MLDR Multiply Left Divide Right	
	Know Your Facts	**Call and Response Statements** MLDR stands for … **Multiply Left Divide Right** When I multiply by a whole number it gets … **bigger** When I divide by a whole number it gets … **smaller**		

<table>
<tr>
<td rowspan="2">Week 6</td>
<td>National Curriculum Statements</td>
<td><u>Multiplication</u>
Teach for Y4: multiply two-digit and three-digit numbers by a one-digit number using formal written layout
Teach for Y5: multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
Teach for Y6: multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication. multiply one-digit numbers with up to 2 decimal places by whole numbers</td>
<td rowspan="2">Multiply
Multiplication
Regroup</td>
<td rowspan="2"> 

Note – this is to illustrate the written method, not necessarily the level to pitch it at.</td>
</tr>
<tr>
<td>Know Your Facts</td>
<td>Call and Response Statements Multiplication
Anything multiplied by zero is … zero
Anything multiplied by one … stays the same</td>
</tr>
<tr>
<td rowspan="2">Week 7</td>
<td>National Curriculum Statements</td>
<td><u>Division</u>
Teach for Y4: -
Teach for Y5: divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
Teach for Y6: divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context</td>
<td rowspan="2">Divide
Division
Exchange</td>
<td rowspan="2"> 

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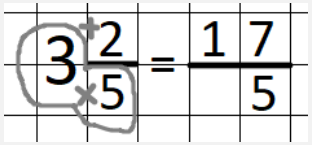
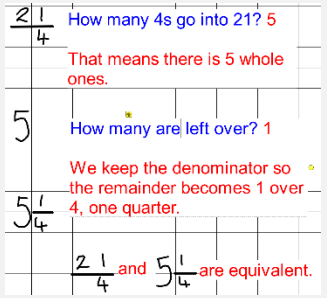
</tr>
<tr>
<td>Know Your Facts</td>
<td>Call and Response Statements Division
Anything divided by zero is … zero
Anything divide by one … stays the same</td>
</tr>
</table>

Week 8	National Curriculum Statements	<u>Mixed and Improper Fractions</u> **Teach for Y4: -** **Teach for Y5:** recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$] **Teach for Y6: -**	Mixed Number Improper Fraction (top heavy fraction) Whole number Fraction Numerator Denominator Equivalent	 
Week 9		<u>Consolidation Week</u>		
Week 10		<u>Consolidation Week</u>		