

Symbols and Vocabulary

+

add
plus
sum
total
more
altogether

-

take-away
subtract
minus
less

X

multiply
times
lots of

÷

divide
share

=

Equals

This policy shares the core strategies used in our schools to teach calculation from Reception through to Year Six. Representations in **bold** identify the first time the children would have been exposed to it. Other representations can also be used to further support the teaching of key concepts, these are found in the **White Rose Scheme of Learning** at the start of each block as well as the **White Rose Slides**.

The core strategies are progressive, starting with concrete methods, moving through pictorial and then abstract. Each time a new skill is taught, concrete methods will help the children to embed the skill. As children progress at different rates, some children may need to use strategies from previous year groups. It is good practise to continue to visit prior representations. Use the small steps outlined in the **White Rose** planning to build up these skills.

Eventually, we want our children to be able to select an efficient method of their choice (concrete, pictorial or abstract) that is appropriate for a given task.

Helpful Hooks



There are ten **chewits** in a packet. This is a useful way of introducing place value, and the relationship between ten ones and one ten. When more ones are needed to solve a problem, you can **open a packet** of tens to use the ten ones.

To help understand the role of equals, an **equals mountain** can be used to help show that both sides of the mountain need to equal the same amount, otherwise the calculation will 'tip over'.

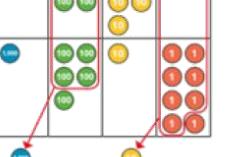
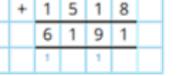
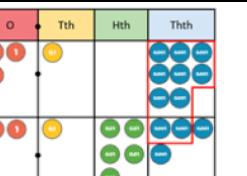
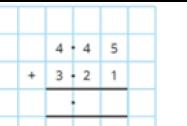


To help children understand the role of X, it can be introduced as 'lazy multiply', when you add the same number over and over, it 'gets tired' and falls on its side, turning into a multiply.

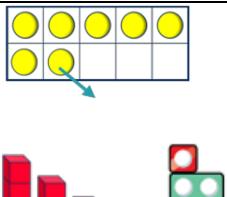
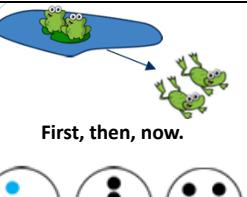
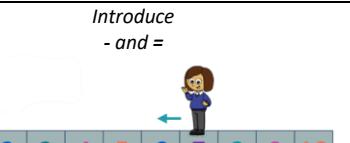
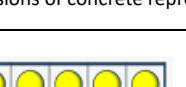
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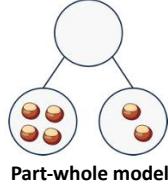
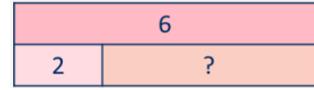
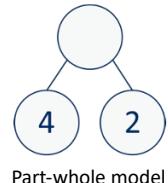
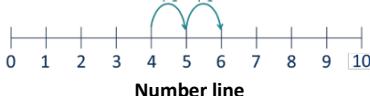
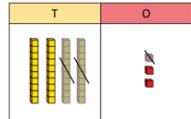
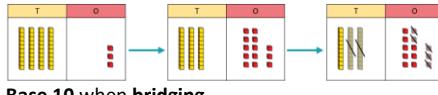
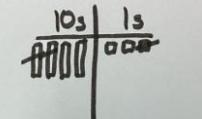
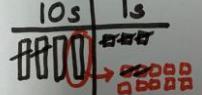
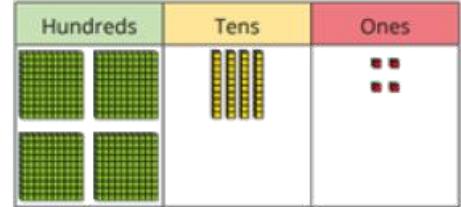
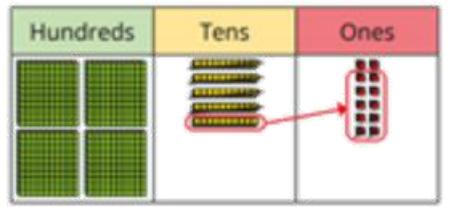
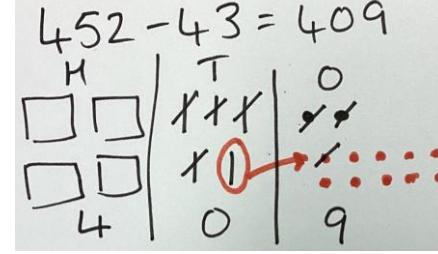
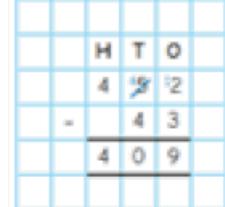
Addition

| Year Group | Concrete | Pictorial | Abstract | Stem sentences |
|------------|----------|----------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Reception | | <p>First, then, now.</p> <p>Subitise to notice parts that make a whole</p> | <p><i>Introduce + and =</i></p> <p>Number tracks</p> | <p>___ and ___ make ___.</p> <p>I have ___.</p> <p>I add ___ more.</p> <p>Now I have ___.</p> <p>First ___ then ___ now ___.</p> |

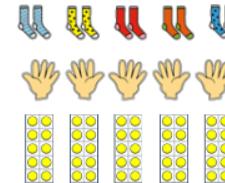
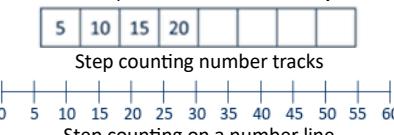
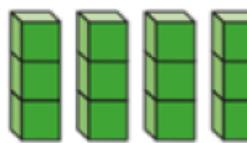
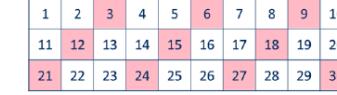
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| Year Four |  <p>Place Value Counters</p> |  <p>Understanding pictorial representation of counters.</p> |  <p>Continue column method with four-digit numbers.</p> | <p>__ ones added to __ ones is equal to __ ones. __ added to __ is equal to __. I have __ hundreds, so I do/do not need to make an exchange.</p> |
| Year Five | <p>No new concrete methods introduced.</p> |  <p>Continue with pictorial representation of place value counters.</p> |  <p>Continue column method with decimal numbers.</p> | <p>In column addition, we start from the place value column that has the __ value. There are not enough __, so I need to exchange 1 __ for 10 __.</p> |
| Year Six | <p>No new concrete methods introduced.</p> <p>Consolidate Previous Strategies</p> | <p>No new pictorial methods introduced.</p> <p>Consolidate Previous Strategies</p> | <p>Continue with drawn methods to help understand mental strategies.</p> | <p>In column addition, we start with the __ place value column. The is in the __ column. It represents __.</p> |

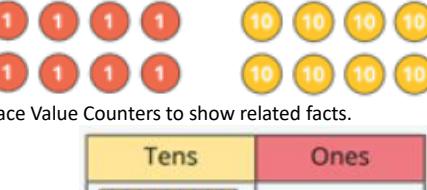
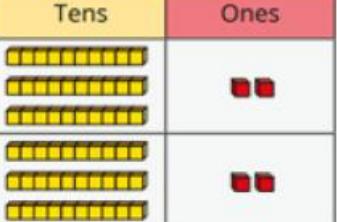
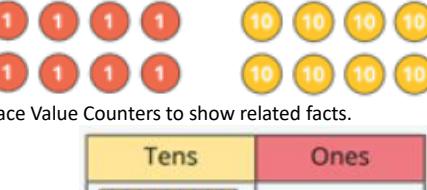
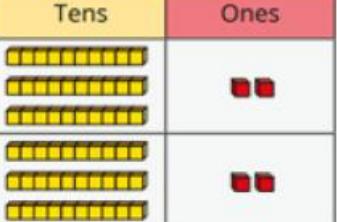
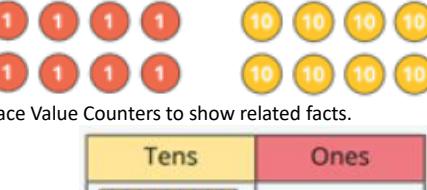
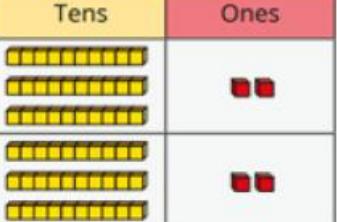
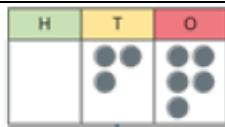
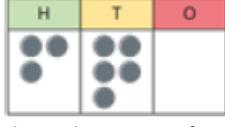
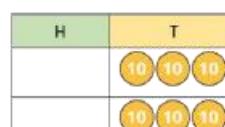
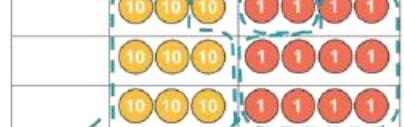
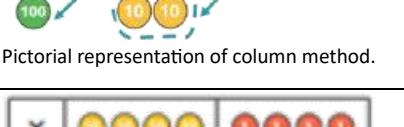
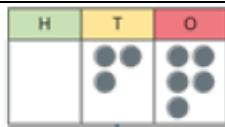
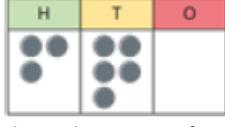
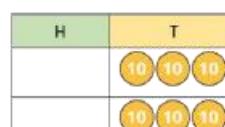
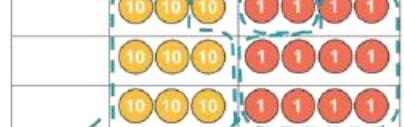
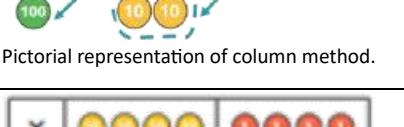
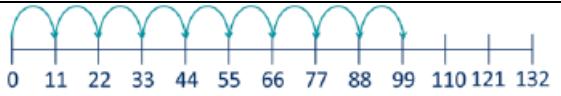
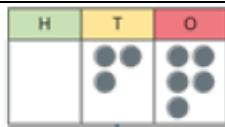
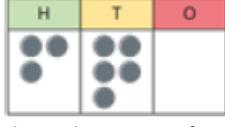
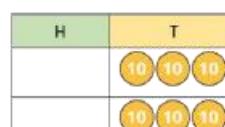
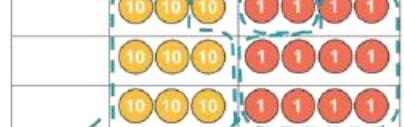
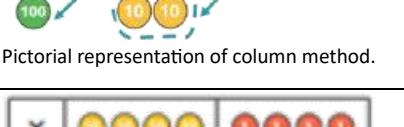
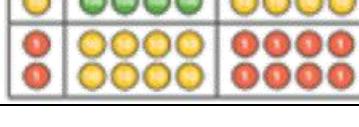
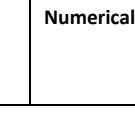
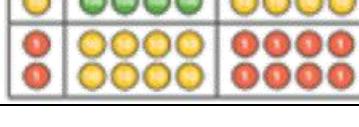
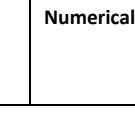
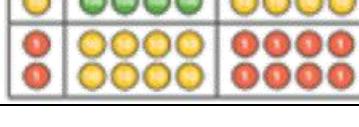
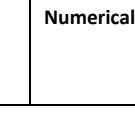
Subtraction

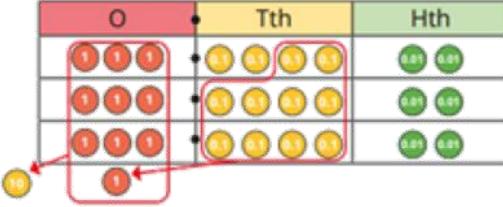
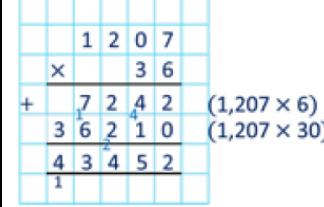
| Year Group | Concrete | Pictorial | Abstract | Stem sentences |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Reception |  <p>Use of five frame, ten frame, Numicon and other manipulatives.</p> |  <p>First, then, now. Subitise to notice parts that make a whole</p> |  <p>Introduce - and = Number tracks</p> | <p>I have ____. I take ____ away. Now I have ____.</p> <p>First ____ then ____ now ____.</p> |
| Year One | <p>Continue with the manipulatives used in Reception, plus:</p> |  <p>Pictorial versions of a five frame and ten frame.</p> | <p>Introduce number sentences e.g. $5+2=7$</p> | <p>____ is the whole. ____ is a part. ____ is a part. ____ minus ____ is equal to ____</p> |

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| |  <p>Part-whole model</p> |  <p>Bar model to introduce missing number problems.</p> |  <p>Part-whole model</p>  <p>Number line</p> | ___ less than ___ is ___. |
| Year Two |  <p>Base 10 when not bridging</p>  <p>Base 10 when bridging</p> |  <p>Drawing tens and ones when not bridging.</p>  <p>Drawing tens and ones when bridging (make ten).</p> | <p>Partition tens and ones.</p> <p>$43 - 21 =$ $40 - 20 = 20$ $3 - 1 = 2$ $20 + 2 = 22$</p> <p>Partition tens and ones.</p> <p>$43 - 25 =$ $3 - 5$ (I need to exchange 1 ten for 10 ones) so $13 - 5 = 8$ ones 4 tens 3 tens - 2 tens = 1 ten 1 ten and 8 ones = 18</p> | <p>I need to exchange 1 ten for 10 ones.</p> <p>The whole is _____. I subtract one part that is _____. The other part is _____. </p> |
| Year Group | Concrete | Pictorial | Abstract | Stem sentences |
| Year Three |  <p>Base 10 when not bridging</p>  <p>Base 10 when bridging</p> |  <p>Column Method with hundreds, tens and ones.</p> |  | <p>There are ___ hundreds, ___ tens and ___ ones.</p> <p>___ tens minus ___ tens is equal to ___ tens.</p> <p>The tens column will decrease by ___.</p> |

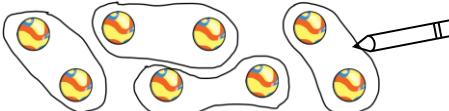
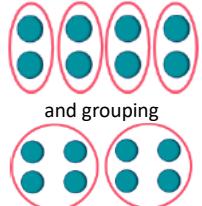
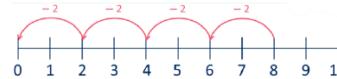
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| Year Four | <p>Place Value Counters for exchanging practically.</p> | <p>Place Value Counters for exchanging.</p> | <p>Column Method with hundreds, tens and ones.</p> | <p>___ ones added to ___ ones is equal to ___ ones.</p> <p>___ added to ___ is equal to ___.</p> <p>I have ___ hundreds, so I do/do not need to make an exchange.</p> |
| Year Five | | <p>Place Value Counters without units written.</p> <p>Bar Model for exposure</p> <p>Bar Model for exposure</p> <p>Place Value Counters to exchange with decimals.</p> | <p>Column Method with decimal places.</p> <p>Supporting mental methods.</p> | <p>In column subtraction, we start from the place value column that has the ___ value.</p> <p>There are not enough ___, so I need to exchange 1 ___ for 10 ___.</p> |
| Year Six | <p>No new concrete methods introduced.</p> <p>Consolidate Previous Strategies</p> | <p>No new pictorial methods introduced.</p> <p>Consolidate Previous Strategies</p> | <p>Continue with drawn methods to help understand mental strategies.</p> | <p>In column subtraction, we start with the ___ place value column.</p> <p>The ___ is in the ___ column. It represents ___.</p> |

| Multiplication | | | | | |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Year Group | Concrete | Pictorial | Abstract | | Stem sentences |
| Reception |  Make equal groups of 'real life' problems in class.  Using hands to show doubles to five | <i>Not necessary for exposure at this stage.</i> | <i>Not necessary for exposure at this stage.</i> | | Double ___ is ___. |
| Year One | Equal groups of objects  Physically making equal groups of objects using any manipulative. |  Step counting pictures that are naturally grouped.  Draw groups of objects |  Introduce arrays, rows and columns $2 + 2 + 2 =$ $5 + 5 + 5 =$ $10 + 10 + 10 =$ Introduce repeated addition | | There are ___ groups of ___. There are ___ altogether. There are ___ rows. There are ___ columns. There are ___ altogether. |
| Year Two | Arranging equal groups of objects as arrays.  | Draw arrays  |  Introduce patterns on a number square.  Step counting on a number line $5 + 5 + 5 + 5 = 20$ $4 \times 5 = 20$ Write repeated addition and multiplication $1 \times 5 = 5 \quad 5 = 1 \times 5$ $2 \times 5 = 10 \quad 10 = 2 \times 5$ $3 \times 5 = 15 \quad 15 = 3 \times 5$ Times tables | | There are ___ equal groups with ___ in each group. There are ___ altogether. ___ lots of ___ is equal to. ___ times ___ is equal to. |
| Year Group | Concrete | Pictorial | Abstract | | Stem sentences |
| Year Three |  Unifix to show 3s, 4s, 8s |  Pictorial representations for 3s, 4s, 8s |  $4 \times 3 = 12 \quad 12 = 4 \times 3$  Hundred Square, and number line to show 3s, 4s, 8s | | There are ___ lots of ___. $_ \times _ = _ \times _$ |

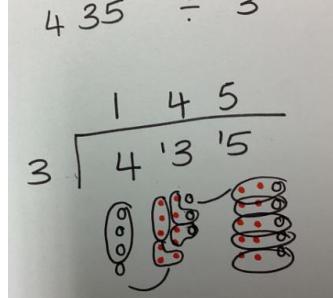
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| | <table border="1"> <tr> <td style="background-color: #ffff99;">Tens</td><td style="background-color: #ff9999;">Ones</td></tr> <tr> <td></td><td></td></tr> </table> <p>$32 \times 2 =$ Base 10 Grid for multiplication.</p> | Tens | Ones |  |  | <table border="1"> <tr> <td style="background-color: #ffff99;">Tens</td><td style="background-color: #ff9999;">Ones</td></tr> <tr> <td></td><td></td></tr> </table> <p>Place Value Counters to show related facts.</p> <table border="1"> <tr> <td style="background-color: #ffff99;">Tens</td><td style="background-color: #ff9999;">Ones</td></tr> <tr> <td></td><td></td></tr> </table> <p>Pictorial Version $32 \times 2 =$</p> | Tens | Ones |  |  | Tens | Ones |  |  | $30 \times 2 = 60$ $2 \times 2 = 4$ $32 \times 2 = 64$ Partitioning tens and ones | | | | | | | | | | | | | | | | | | | |
| Tens | Ones | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Tens | Ones | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Tens | Ones | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Year Four | As above but extending 12×12 | <table border="1"> <tr> <td style="background-color: #99ff99;">H</td> <td style="background-color: #ffff99;">T</td> <td style="background-color: #ff9999;">O</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> <p>Place Value Counters for multiplying by 10 or 100</p> <table border="1"> <tr> <td style="background-color: #99ff99;">H</td> <td style="background-color: #ffff99;">T</td> <td style="background-color: #ff9999;">O</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> <p>Pictorial representation of column method.</p> | H | T | O |  |  |  | H | T | O |  |  |  |  <p>Extending to 12×12</p> <p>$3 \times 7 = 21$ $3 \times 70 = 210$ $3 \times 700 = 2,100$</p> <p>Related facts</p> <table border="1"> <tr> <td style="background-color: #99ff99;">H</td> <td style="background-color: #ffff99;">T</td> <td style="background-color: #ff9999;">O</td> </tr> <tr> <td>3</td> <td>4</td> <td></td> </tr> <tr> <td>\times</td> <td>5</td> <td></td> </tr> <tr> <td></td> <td>1</td> <td>7</td> </tr> <tr> <td></td> <td></td> <td>0</td> </tr> <tr> <td></td> <td>1</td> <td>2</td> </tr> </table> <p>Column Method to multiply 2-digit by 1-digit</p> | H | T | O | 3 | 4 | | \times | 5 | | | 1 | 7 | | | 0 | | 1 | 2 | <p>6 lots of ___ is ___.</p> <p>___ shared into 6 equal groups is ___.</p> <p>Multiplying by 6 is the same as multiplying by ___ twice.</p> <p>___ \times 6 = double ___ \times 3</p> |
| H | T | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H | T | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| H | T | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| \times | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Year Five | | <table border="1"> <tr> <td>\times</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> | \times |  |  |  |  |  | <table border="1"> <tr> <td>\times</td> <td>40</td> <td>4</td> </tr> <tr> <td>30</td> <td>1,200</td> <td>120</td> </tr> <tr> <td>2</td> <td>80</td> <td>8</td> </tr> </table> <p>Numerical Grid Method</p> | \times | 40 | 4 | 30 | 1,200 | 120 | 2 | 80 | 8 | <p>A multiple is the result of multiplying a number by ___.</p> <p>The first multiple of a number is always ___.</p> <p>___ is a multiple of ___ because ___ \times ___ = ___</p> | | | | | | | | | | | | | | | |
| \times |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| \times | 40 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 1,200 | 120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 80 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | | <p>Grid Method exposure.</p> |  <p>(32×3) (32×10)</p> | |
| Year Six | |  <p>Grid Method when multiplying decimals.</p> |  <p>$(1,207 \times 6)$ $(1,207 \times 30)$</p> | <p>The first multiple of a number is always _____. ____ is a multiple of ____ because ____ \times ____ = ____. ____ is a common multiple of ____ and ____.</p> |

Division

| Year Group | Concrete | Pictorial | Abstract | Stem sentences |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reception |  <p>Fair sharing of 'real life' problems in class.</p> | <p><i>Not necessary for exposure at this stage.</i></p> | <p><i>Not necessary for exposure at this stage.</i></p> | <p>There are ___ altogether. They are shared equally between ___ groups.</p> |
| Year One | <p>Make equal groups</p> <p>Sharing</p>  <p>Divide equally between the groups to see how many are in a group.</p> <p>Grouping</p>  <p>Divide into equal groups to see how many groups are made.</p> | <p>Share groups of objects by drawing them one at a time.</p>  <p>Circle groups of objects.</p>  | <p><i>Not necessary for exposure at this stage.</i></p> | <p>There are ___ altogether. How many groups of ___ can you make? ___ has been shared equally between ___. There are ___ on/in each ___.</p> |
| Year Two | <p>Beadstring to show repeated subtraction.</p> <p>Compare sharing and grouping</p>  | <p>Draw arrays to compare sharing and grouping</p>  | <p>Repeated subtraction on a number line.</p>  <p>Times tables facts</p> $4 \times 2 = 8$ $8 \div 2 = 4$ | <p>___ divided into equal groups of ___ is equal to ___.</p> <p>___ shared between ___ groups is equal to ___.</p> |

| Year Group | Concrete | Pictorial | Abstract | Stem sentences | | | | | | | | | | | | | | | | | | |
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| Year Three | | <p>$6 \div 2$ $7 \div 2$ Grouping with and without remainders – pictorial</p> <p></p> | $14 \div 2 = 7$ $10 \div 2 = 5$ $4 \div 2 = 2$ Partitioning $34 \div 2 = 17$ $20 \div 2 = 10$ $14 \div 2 = 7$ Flexible Partitioning | $\underline{\quad}$ has been shared equally into $\underline{\quad}$ equal groups. There are $\underline{\quad}$ groups of $\underline{\quad}$ in $\underline{\quad}$. This question is sharing/ grouping because $\underline{\quad}$. | | | | | | | | | | | | | | | | | | |
| Year Four | No new concrete... | <p>12 Bar model</p> <p></p> <p>Pictorial Representation of related facts.</p> <table border="1"> <thead> <tr> <th>Hundreds</th> <th>Tens</th> <th>Ones</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Pictorial Representation of carrying.</p> | Hundreds | Tens | Ones | | | | | | | | | | | | | | | | $2 \times 6 = 12$ $12 \div 6 = 2$ Fact family $21 \div 7 = 3$ $210 \div 7 = 30$ $2,100 \div 7 = 300$ Related facts $300 \div 3 = 100$ $120 \div 3 = 40$ $15 \div 3 = 5$ $435 \div 3 = 145$ Flexible partitioning into factors. | $\underline{\quad}$ tens divided by $\underline{\quad}$ = $\underline{\quad}$ tens each. $\underline{\quad}$ ones divided by $\underline{\quad}$ = $\underline{\quad}$ ones each. I cannot share all of the tens equally, so I need to... |
| Hundreds | Tens | Ones | | | | | | | | | | | | | | | | | | | | |
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| Year Five | No new concrete... | $435 \div 3$  <p>Pictorial Examples of Bus Stop method</p> | <p>Bus stop method</p> <p>Mental Strategies...</p> | <p>— divided by 10/100/1000 is equal to ____.</p> <p>— is one-tenth/ one-hundredth/ one-thousandth the size of ____.</p> <p>There were ____ tens/hundreds. Now there are ____ ones/tens.</p> |
| Year Six | No new concrete... | No new pictorial | Long division strategies | <p>— thousands divided by ____ is equal to ____.</p> <p>thousands with a remainder of ____.</p> <p>The remainder is exchanged into ____ hundreds.</p> <p>— hundreds divided by ____ is equal to ____ hundreds with a remainder of ____.</p> <p>The remainder is exchanged into ____ tens.</p> |