## Progression of Written Calculation Strategies - Maths Curriculum 2014

| EYFS |  |  |  |
| :---: | :---: | :---: | :---: |
| Expected ELG |  |  |  |
| Addition | Subtraction | Multiplication | Division |
| Combine two or more sets of objects up to 10 . | Take away objects from a set up to 10. <br> प्ञात $6-2=$ | Not required at EYFS | Not required at EYFS |
| Add using a number line up to 10 and beginning to record. | Subtract using a number line up to 10 and beginning to record. |  |  |
| $2+3=5$ |  | Not required at EYFS | Not required at EYFS |



| Year 1 (expected) |  |  |  |
| :---: | :---: | :---: | :---: |
| Addition | Subtraction | Multiplication | Division |
| Add a single digit to a 2-digit number up to 20 with a number line. | Subtract a single digit from a 2-digit number up to 20 with a number line. | Use arrays up to 20. $3 \times 2=6$ | Use concrete objects to divide up to 20. |
| Add 2 digit number to a 2 digit number using place value 10 s and 1 s . $\underset{30+5=35}{22+13}$ | Subtract 2 digit number to a 2 digit number using place value 10 s and 1 s . $\underbrace{29-12}_{10+7=17}$ |  |  |


| Year 2 (expected) |  |  |  |
| :---: | :---: | :---: | :---: |
| Addition | Subtraction | Multiplication | Division |
| Add two 2-digit numbers using column method with no 'carrying'. $\begin{array}{r} 43 \\ +25 \\ \hline 68 \end{array}$ | Subtract two 2-digit numbers with no 'exchanging'. $\begin{array}{r} 56 \\ -32 \\ \hline 24 \\ \hline \end{array}$ | Using an array by 2, 5 and 10. <br> 2 digit by 1 digit column multiplication. | Division by grouping |


| Year 3 (expected) |  |  |  |
| :---: | :---: | :---: | :---: |
| Addition | Subtraction | Multiplication | Division |
| Column addition of 3 digit by 2 digit numbers. | Column subtraction of 3 digit by 2 digit numbers. | Expanded column and short column method TU $\mathrm{x} U$ using $\times 2, \times 3, \times 4, \times 5, \times 6$ and $\times 8$. | Short division method dividing by $2,3,4,5,6,7$ and 8 with carrying. |
| $\begin{array}{r} 2653 \\ +\quad 8 \\ \hline 34 \\ \hline 532 \\ \hline \end{array}$ | $\begin{array}{r} { }^{7} 8^{\prime} 2 \\ -\quad 7 \\ -\frac{59}{75} \cdot \frac{69}{565} \\ \hline \end{array}$ | $\begin{array}{r} 25 \\ \times \quad 65 \\ \times 30 \\ \hline 120 \\ \hline 150 \\ \hline \end{array}$ | $7 \longdiv { x ^ { 2 } 8 4 }$ |




| Year 6 (expected) |  |  |  |
| :---: | :---: | :---: | :---: |
| Addition | Subtraction | Multiplication | Division |
| Adding fractions with different denominators and mixed numbers. $\begin{aligned} & \frac{3}{4}+\frac{1}{3} \\ & (\times 3) \\ & \frac{9}{12}+\frac{4}{12}=\frac{13}{12}=1 \frac{1}{12} \end{aligned}$ $\begin{aligned} & 1 \frac{3}{5}+2 \frac{1}{10} \\ & \frac{8}{5}+\frac{21}{10} \\ & \frac{16}{10}+\frac{21}{10}= \\ & \frac{37}{10}=3 \frac{7}{10} \end{aligned}$ | 4 digits by 4 digits using exchanging. $\qquad$ | Multiply 4 digits by 1 digit with a decimal number. | Divide a 5 digit number by a 2 digit number with a decimal. |

