## Progression Document - National curriculum and 'Ready to Progress' mapping (EYFS - See NSM section)

Table 1-National Curriculum Objectives
Table 2 - Ready To Progress Criteria
Table 3 - Small Steps

|  | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs | solve problems with addition and subtraction: <br> - using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods | add and subtract numbers mentally, including: <br> - a three-digit number and 1 s <br> - a three-digit number and 10 s <br> - a three-digit number and 100 s | add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate | add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) | solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why |
|  | represent and use number bonds and related subtraction facts within 20 | recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 | add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction | estimate and use inverse operations to check answers to a calculation | add and subtract numbers mentally with increasingly large numbers | perform mental calculations, including with mixed operations and large numbers |
|  | add and subtract one-digit and two-digit numbers to 20 , including 0 | add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <br> - a two-digit number and is <br> - a two-digit number and 10 s <br> - 2 two-digit numbers <br> - adding 3 one-digit numbers | estimate the answer to a calculation and use inverse operations to check answers | solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why | use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy | use their knowledge of the order of operations to carry out calculations involving the 4 operations |
|  | solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=$ ? - 9 | show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another cannot | solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction |  | solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why | solve problems involving addition and subtraction |
|  |  | recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems |  |  |  | use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy |


|  | Ready to Progress Criteria | Block | Steps |
| :---: | :---: | :---: | :---: |
| $\stackrel{\bar{\circ}}{\stackrel{\circ}{\otimes}}$ | 1NF-1 Develop fluency in addition and subtraction facts within 10 | Aut 2 | Number bonds within 10 <br> Systematic number bonds within 10 <br> Number bonds to 10 |
|  |  | Spr 2 | - Add ones using number bonds <br> - $\quad$ Subtract ones using number bonds |
|  | 1NF-2 Count forwards and backwards in multiples of 2,5 and 10 , up to 10 multiples, beginning with any multiple, and count forwards and backwards through the odd numbers. | See under Multiplication \& Division |  |
|  | 1AS-1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers. | Aut 2 | - Number bonds within 10 <br> - Systematic number bonds within 10 <br> - Number bonds to 10 |
|  | 1AS-2 Read, write and interpret equations containing addition ( + ), subtraction ( - ) and equals ( $=$ ) symbols, and relate additive expressions and equations to real-life contexts. | Aut 2 | - Fact Families - addition facts <br> - Addition - add together <br> - Addition-add more <br> - Addition problems <br> - Find a part <br> - Subtraction - find a part <br> - Fact families - the eight facts <br> - Subtraction (take away/cross out) <br> - Subtraction - take away (how many left?) <br> - Subtraction on a number line |
|  |  | Spr 2 | - Add by counting on within 20 <br> - Subtract ones using number bonds <br> - Subtraction - Counting back <br> - Subtraction - finding the difference <br> - Missing number problems |
| $\begin{aligned} & \text { N } \\ & \bar{\circ} \\ & \stackrel{\text { D }}{0} \end{aligned}$ | 2NF-1 Secure fluency in addition and subtraction facts within 10 , through continued practice. | Aut 2 | - Bonds to 10 <br> - Add by making 10 <br> - Add to the next 10 <br> - Subtract from a 10 |
|  | 2AS-1 Add and subtract across 10 | Aut 2 | - Add across a 10 <br> - Subtract across a 10 <br> - Subtract from a 10 <br> - Subtract 1-digit number from a 2 digit number (across a 10 ) |
|  | 2AS-2 Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more...?". | Spr 1 | - Find change |
|  | 2AS-3 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a two digit number. | Aut 2 | - Add across a 10 <br> - Subtract across a 10 <br> - Subtract from a 10 <br> - Subtract 1-digit number from a 2-digit number (across a 10) <br> - 10 more, 10 less <br> - Add and subtract |
|  | 2AS-4 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers. | Aut 2 | - Add two 2-digit numbers (not across a 10) <br> - Add two 2-digit numbers (across a 10) <br> - Subtract two 2-digit numbers (not across a 10) <br> - Subtract two 2-digit numbers (across a 10 ) <br> - Mixed addition and subtraction |
|  |  | Spr 1 | - Make a pound <br> - Find change |
|  |  | Spr 3 | - Four operations with lengths and heights |


| White Rose Maths National Curriculum Smaller Steps linked to Ready to Progress Criteria |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Calculations | Aut 2, Spr 2 <br> - add and subtract <br> - one-digit and two digit numbers to 20 , <br> - including zero | Aut 2 <br> - add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <br> > a two-digit number and ones <br> > a two-digit number and tens <br> > two two-digit numbers <br> > adding three one digit numbers | Aut 2 <br> - add and subtract <br> - numbers mentally, <br> - including: <br> > a three-digit number and ones <br> > a three-digit number and tens <br> > a three-digit number and hundreds <br> - add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction | Aut 2 <br> - add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate | Aut 2 <br> - add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) <br> - add and subtract numbers mentally with increasingly large numbers | Aut 2 <br> - perform mental calculations, including with mixed operations and large numbers <br> - use their knowledge of the order of operations to carry out calculations involving the four operations |
| Problems | Aut 2 \& Spr 2 <br> - solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=$ $\square$ 9 | Aut 2 <br> - solve problems with addition and subtraction: <br> > using concrete objects and pictorial representations, including those involving numbers, quantities and measures <br> > applying their increasing knowledge of mental and written methods | Aut 2 <br> - solve problems. including missing number problems, using number facts, place value, and more complex addition and subtraction | Aut 2 <br> - solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why | Aut 2 <br> - solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why <br> - solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign | Aut 2 <br> - solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why |

