## CAPTAIN WEBB PRIMARY SCHOOL

Maths Curriculum - Key Knowledge and Skills
(Bold-Statutory Statements from NC;
Italics-Non-statutory, but fundamental to ensure knowledge is secure)

|  | $\begin{aligned} & \text { Daycare } \\ & \text { 2/Rising } \end{aligned}$ | Nursery Pre-Schoot (35) | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CALCULATION + - |  |  |  |  |  |  |  |  |  |
| Number Bonds |  |  |  |  |  |  |  |  |  |
|  |  | Knows that numbers are made up (composed) of smaller numbers. <br> Knows that each counting number is one more than the number before. | Knows and recalls number facts and relationships to 10 | Knows that addition makes a larger total <br> Knows that subtraction reduces the amount. <br> Knows the operation required and calculates using counting and known facts. <br> Knows number bonds to 10. <br> Knows fact families to 10 then 20. | Knows addition and subtraction facts to 20 fluently. <br> Knows related facts up to 100. | Knows bonds to 20 and 100(Y2). |  | Know decimal bonds to 1 |  |
|  | Knows how to compar amount $s$ using | Knows how to separate a group of three to four objects in separate ways and | Knows how to automatically recall number bonds for numbers 0-5 and some for | Knows how to count on to find totals to 20. <br> Knows how to read, write | Knows howto use related facts to 20 when calculating. | Knows how to use number bonds to 10 to help with bonds. to 20 and 100. |  |  |  |

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Daycare 2/Rising 3 | Nursery Pre-Schoot (3s) | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| CALCULATION +/- |  |  |  |  |  |  |  |  |  |  |  |
| Mental Calculations |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Relationships between facts |  |  | Knows and recalls number facts and relationships to 10. | Knows that counting back is 'take away' and counting on is find the difference'. <br> Knows doubles up to 20. | Knows that addition is the inverse to subtraction. <br> Knows that addition is commutative. | Knows efficient mental strategies including partitioning and adjusting to add/subtract numbers mentally, | Knows <br> efficient <br> mental <br> strategies <br> including <br> partitioning <br> and <br> adjusting <br> to <br> add/subtract <br> numbers <br> mentally, | Knows <br> efficient <br> mental <br> strategies <br> including <br> partitioning <br> and adjusting <br> to add/subtract <br> numbers <br> mentally, | Knows efficient mental methods applying knowledge of properties of number. |
|  |  |  |  |  | Knows how to subitize to 5. <br> knows how to conceptually subitise larger numbers by subitising smaller groups within the number. | Knows how to add and subtract one digit and twodigit numbers to 20, including zero | Knows howto add and subtract numbers mentally using number sense, place value, bridging, near doubles and adjustment strategies. | Knows how to add and subtract numbers mentally, including: * a three-digit number and ones * a three-digit number and tens | Knows how to add and subtract numbers mentally with increasingly large numbers | Knows how to add and subtract numbers mentally with increasingly large numbers | Knows howto perform mental calculations, including with mixed operations and large numbers <br> Knows how to use mental calculations with increasingly lange numbers and more complex calculations. |

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|  |  |  |  |  |  |  |  | * a three-digit number and hundred |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Daycare 2/Rising 3 | $\begin{gathered} \text { Nursery } \\ \text { Pre-Schoot (3s) } \end{gathered}$ | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| CALCULATION +/- |  |  |  |  |  |  |  |  |  |  |  |
| Written Methods |  |  |  |  |  |  |  |  |  |  |  |
| DECLARATIVE |  |  |  | Knows that numbers can be represented in marks and signs. | Knows the language of 'more' and 'fewer' to compare two sets of objects. | Knows the effect of zero. | Knows efficient strategies to add/subtract up to two digit numbers. | Knows that adding/subtracti ng a multiple of 10 or 100 from a three digit number changes only one digit. | Knows efficient methods for addition and subtraction up to and including four-digit numbers. |  | Knows the compact algorithms for addition and subtraction. |
|  |  |  |  |  | Knows how to use the vocabulary inwolved in adding and subtracting. <br> Know howto explore and work out mathematical problems, using signs and | Knows how to represent and use number bonds and related subtraction facts within 20. <br> Knows howto read, write and interpret mathematical statements involving | Knows howto add and subtract numbers using concrete objects and pictorial representations <br> Knows how to apply their increasing mental and written methods in context. | Knows howto add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction <br> Knows how to calculate with columnar | Knows how to add and <br> subtract using standard written algorithms. Knows how to add/subtrac t numbers with 2 decimal places, using formal | Knows how to add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) | Knows how to add/subtract multidigit numbers with more than 4 digits (with up to 3 decimal places), using formal written methods (columnar addition) <br> Knows how to solve addition \& subtraction multistep problems in context. |

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|  |  | strategies with support. <br> Knows how to to explore and work out mathematical problems using standard numerals, tallies and + - | addition (+), subtraction (-) and equals (=) signs (appears also in Mental Calculation) |  | methods regrouping the tens and exchanging in subtraction. <br> Knows the compact algorithms for addition and subtraction including regrouping and exchanging. | written methods (columnar addition) including in the context of money. | Knows how to solve addition and subtraction multi-step problems in context. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CALCULATION +/- |  |  |  |  |  |  |  |  |
| Inverse Operations, Estimating \& Checking Answers. |  |  |  |  |  |  |  |  |
|  | Knows that numbers are made up (composed) of smaller numbers. <br> Knows thateach counting number is one more than the number before. |  | Knows that addition subtraction are inverse operations. | Knows that addition is the inverse to subtraction. <br> Knows that addition is commutative |  | Knows the efficient written algorithms for addition and subtraction with increasing fluency for large numbers. | Knows that rounding can be used to check answersto calculations and determine, in the context of a problem, levels of accuracy | Knows the meaning of BIDMAS to help order the use of operations in a calculation. |

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Numbers <br> Add <br> Take away equals. | Add <br> Take away equals subitize number bonds more less put together | Add <br> Take away <br> Equals <br> subitize <br> number <br> bonds <br> more <br> less, <br> put together <br> altogether <br> total <br> the same as <br> plus. <br> makes <br> subtract <br> difference <br> between <br> less than <br> minus <br> leaves <br> fewer <br> left over <br> ones <br> tens | altogether total the same as plus. makes subtract difference between less than minus leaves fewer left over ones tens. <br> commutative inverse partition near double rearrange | commutative inverse partition near double rearrange <br> hundreds boundary exchange carried digits | hundreds boundary exchange carried digits Increase decease | Tenths hundredths | Tenths Hundredths thousandths |

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