| Year | Emerging | Developing | Secure <br> (NC 2014 Statements) |
| :---: | :---: | :---: | :---: |
| 1 | - Read and write numbers from 1 to 10 in words. | - Read and write numbers from 1 to 15 in words. | - Write numbers from 1 to 20 in words. |
|  | - Know all number bonds to 10. | - Know all number bonds to 20. | - Represent and use number bonds and related subtraction facts within 20. e.g. $9+7=16$; $16-7=9 ; 7=16-9$ |
|  | - Know doubles up to double 5. <br> - Know halves up to half of 10. | - Know doubles to double 10 <br> - Know halves up to half of 20. |  |
|  |  | - Know that there are 60 seconds in a minute. <br> - Know that there are 60 minutes in an hour. |  |
|  | - Know and sequence the days of the week. | - Know and sequence the months of the year. |  |
| 2 | - Read and write numbers $1-30$ in words. | - Read and write numbers $1-50$ in words. | - Read and write numbers to at least 100 in words. |
|  | - Derive addition facts to 20 using concrete objects. <br> - Derive subtraction facts to 20 using concrete objects. | - Begin to derive related <br> facts (e.g. $3+7=10$ <br> therefore $7+3=10,10-$ $7=3,7=10-3$ ). <br> - Begin to derive further related facts (e.g. $70+30$ $\begin{aligned} & =100,100-70=30,70= \\ & 100-30) \end{aligned}$ | - Recall addition and subtraction facts to 20 fluently. <br> - Derive and use related facts up to 100. |
|  | - Recall 2 times tables from 0 to 24. <br> - Recall 5 times tables from 0 to 60. <br> - Recall 10 times tables from 0 to 120. | - Recall 2,5 and 10 times tables. <br> - Derive division facts for 2 times tables. <br> - Derive division facts for 5 times tables. <br> - Derive division facts for 10 times tables. | - Recall and use multiplication and division facts for the 2,5 and 10 multiplication tables. <br> - Recognise odd and even numbers. |
|  | - Know that two halves make a whole. | - Know that four quarters make a whole | - Recognise the equivalence $2 / 4=1 / 2$ |
|  |  | - Know there are 60 minutes in an hour. <br> - Know that there are 24 hours in a day. | - Know the number of minutes in an hour and the number of hours in a day. |
| 3 |  | - Read and write numbers up to 1000 in words. |  |
|  | - Recall 3 times tables from 0 to 36. <br> - Recall 4 times tables from 0 to 48. | - Derive division facts for 3 times tables. <br> - Derive division facts for 4 times tables. | - Recall and use multiplication and division facts for the 3, 4 and 8 multiplication |



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| 4 | - Read Roman numerals to 10. | - Read and write Roman numerals up to and including 50. | - Read Roman numerals to 100 (I to C). |
|  | - Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. | - Recall multiplication facts for the $6,7,9,11$ and 12 multiplication tables. <br> - Derive division facts for the $6,7,9,11$ and 12 times tables. | - Recall multiplication and division facts for multiplication tables up to $12 \times 12$. |
|  | - Use commutative rules in mental calculation e.g. 8 $\begin{aligned} & \times 6=48,6 \times 8=48,48 \div 8 \\ & =6 \text { and } 48 \div 6=8 . \end{aligned}$ | - Recognise that $20 \times 7=$ $10 \times 2 \times 7$ or $10 \times 7 \times 2$ to make calculation easier | - Recognise and use factor pairs and commutativity in mental calculations. |
|  | - Show, using diagrams, the equivalence $1 / 2=2 / 4=$ $3 / 6=4 / 8=5 / 10$. <br> - Show, using diagrams, the equivalence $1 / 4=2 / 8$. | - Show, using diagrams, the equivalence $1 / 3=$ $2 / 6=3 / 9$. <br> - Show, using diagrams, the equivalence $2 / 3=$ $4 / 6=6 / 9$. | - Recognise and show, using diagrams, families of common equivalent fractions. |
|  | - Recognise and write any number of tenths as decimals. | - Recognise and write any number of hundredths as decimals. | - Recognise and write decimal equivalents of any number of tenths or hundredths. |
|  | - Use concrete resources to show $1 / 2$ as 0.5 and vice versa. | - Recognise 0.75 as $3 / 4$ and 0.25 as $1 / 4$. | - Recognise and write decimal equivalents to $1 / 4$, $1 / 2,3 / 4$. |
|  | - Recall that there are: <br> - 1000 g in 1 kg . <br> - 100 cm in 1 m . <br> - $\quad 10 \mathrm{~mm}$ in 1 cm . <br> - 1000 ml in 1 . | - Begin to understand place value when a number (whole or decimal) is: <br> - Multiplied and divided by $10(\mathrm{~cm} / \mathrm{mm})$. <br> - Multiplied and divided by $100(\mathrm{~m} / \mathrm{cm})$. <br> - Multiplied and divided by $1000(\mathrm{~km} / \mathrm{m})$. | - Convert between different units of measure [for example, kilometre to metre; hour to minute]. |
|  | - Convert time between analogue and digital 12hour clocks. | - Convert time between a 12- and 24-hour clock (2:30pm = 14:30). <br> - Convert time between analogue and digital 24hour clocks. | - Read, write and convert time between analogue and digital 12- and 24hour clocks. |
|  | - Convert hours to minutes. <br> - Convert minutes to seconds. <br> - Convert years to months. <br> - Convert weeks to days. |  |  |
|  | - Know that an acute angle |  |  |


|  | is less than $90^{\circ}$. <br> - Know that an obtuse angle is greater than $90^{\circ}$ but less than $180^{\circ}$. |  |  |
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| 5 |  | - Write in words numbers to 1000 000, using correct spelling. | - Read, write, order and compare numbers to at least 1000000 and determine the value of each digit. |
|  | - Read Roman numerals, multiples of hundreds to 1000. | - Read all Roman numerals, numbers to 1000 (M). | - Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. |
|  | - Identify and explain prime numbers. <br> - Know what composite numbers are. | - Identify and explain prime factors, e.g. derive the prime factors of 36 by starting with a pair of factors: $18 \times 2,18$ then factors into $9 \times 2,9$ factors into $3 \times 3$, prime factors of 36 are $\mathbf{3 \times 3 \times 2}$ $\times 2$. | - Know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers. |
|  | - Investigate prime numbers to 100 . | - Recall prime numbers to 19. | - Establish whether a number up to 100 is a prime and recall prime numbers up to 19. |
|  |  | - Recall all square numbers to $12 \times 12$. | - Recognise and use square numbers and cube numbers, and the notation for squared ( ${ }^{2}$ ) and cubed ( ${ }^{3}$ ). |
|  | - Identify and name all equivalent fractions which represent tenths. | - Identify and name all equivalent fractions which represent hundredths. | - Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. |
|  | - Recognise the per cent symbol. <br> - Know that per cent relates to 'number of parts per hundred'. | - Write percentages as fractions (denominator is 100) (e.g. $72 \%=72 / 100$ ). <br> - Write percentages as a decimal (e.g. $72 \%=0.72$ ). | - Recognise the per cent symbol (\%) and understand the per cent relates to 'number of parts per hundred'. <br> - Write percentages as a fraction with denominator 100, and as a decimal. |
|  | - Recall that: <br> $-2.5 \mathrm{~cm}=1$ inch. <br> $-1 \mathrm{~kg}=$ approximately 2 pounds. <br> - approximately half a litre |  |  |


|  | (0.5l) = 1 pint |  |  |
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|  | - Know $180^{\circ}$ as an angle is a straight line. <br> - Know that a reflex angle is greater than $180^{\circ}$ but less than $360^{\circ}$. |  |  |
|  | - Know that each angle in a rectangle is $90^{\circ}$. <br> - Know that all angles in a rectangle add up to $360^{\circ}$. <br> - Know that parallel sides on a rectangle are the same length. |  |  |
| 6 |  | - Write in words numbers to 10000 000, using correct spelling. |  |
|  | - Identify prime numbers up to 100 . | - Identify prime numbers > 100. | - Identify common factors, common multiples and prime numbers ( $>100$ ). |
|  | - Recall and identify equivalent fractions (in order to add and subtract them). |  |  |
|  | - Recall the decimal and percentage equivalents of halves, quarters and tenths. | - Recall and be able to show the decimal and percentage equivalents of thirds and fifths in a variety of contexts. | - Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. |
|  |  |  | - Convert between miles and kilometres. |

