Maths Medium Term Planning - Year 2 - Autumn 1

|  | Year 2 - Autumn 1 |  |  |
| :---: | :---: | :---: | :---: |
| $\frac{\Sigma}{\varepsilon}$$\frac{1}{2}$$\frac{\Xi}{2}$ | Number and Place Value |  |  |
|  | Learning Intention | Implementation | Impact |
|  | To be able to count in steps of $\mathbf{2}$ from 0 , forward or backward. | On a 100 square the children will count in 2 s and colour in the numbers for even numbers, they will carry on the pattern beyond 100. They will then colour the odd numbers. | Children can recognise the pattern for counting in $2 s$ and understand what odd and even numbers are. They will know how to write a 3 digit number. |
|  | To count in tens from any number, forward or backward. (\& MM) | The children will be able to add 10 and count in tens from any number from 0 to 100. E.g. 6, 16, 26. | The children will understand that every time you add a ten to a number, the tens column changes but the ones column remains the same. |
|  |  | The children will write 0 to 100 counting in 10s. | The children will recognise the pattern e.g. tens column increasing by 1 ten each time and the ones column remaining at 0 . |
|  | To recognise the place value of each digit in a two digit number (tens and ones). | The children will be given two digit numbers and will be able to say how many tens and ones are in that number e.g. 48, 31. | The children will understand which digit represents the tens and which represents the ones in a two digit number. They will understand for example that 2 tens are the same as saying 20. |
|  | To identify, represent and estimate numbers using different representations, including the number line. | The children will in their mental maths sessions be asked to estimate for example how many pebbles are in the pot. | The children will understand how to estimate making a sensible guess e.g. there are 20 pebbles and they make sensible estimates by looking at the objects such as 19, rather than making an unrealistic estimate of 100 . |





| To recognise and use symbols for pounds $(f)$ and pence ( $p$ ) and combine amounts to make a particular value. (MM) | During the mental maths sessions the children will tell the time to o'clock, half past, quarter past and quarter to. <br> Put all the coins in order on the board. What are their values? How much money do you have if you add them altogether? | The children will understand the value of the coins and be able to use their knowledge of adding and counting in $2 \mathrm{~s}, 5 \mathrm{~s}$ and 10 s to add up coins. |
| :---: | :---: | :---: |
| Geometry and properties of Shapes |  |  |
| Learning intention | Implementation | Impact |
| To identify and describe the properties of 2D shapes, including the number of sides. To identify and describe the properties of 3D shapes, including the number of edges vertices and faces. | The children will play a guess my shape game by choosing a card and putting it on their head. Their partner then describes the properties of the shapes to them. | The children will understand mathematical vocabulary such as 2 dimensional, 3 dimensional, sides, shapes, vertices and edges. They know the names of shapes dependent on the properties described. |
| Statistics |  |  |
| Learning Intention | Implementation | Impact |
| To interpret and construct block diagrams. <br> To interpret and construct simple pictograms and tally charts | The children will represent data given in a bar chart and answer questions on this. <br> The children will create their own pictogram selecting fruit using a computer programme. Once constructed they will answer questions about their pictogram. As a class make a tally of everyone's favourite fruit. | The children will know how to construct a bar graph and also interpret data from this. They will understand mathematical vocabulary such most and least popular. The different between. <br> They children will understand that a tally is arranged by counting in 5 s . They will know to use their knowledge of counting in 5 s to add up a tally. They will know how to construct a pictogram and answer questions on it and generate their own questions. |


| Mastering number | Subitising | Cardinality, ordinality and counting | Composition | Comparison | Addition and subtraction/ Number facts |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | - develop conceptual subitising skills as they become more familiar with patterns made by numbers within 10 and understand their composition <br> - use perceptual and conceptual subitising when using a rekenrek. | - explore the linear number system within 10 , looking at a range of representations <br> - compare number tracks and number lines and explore the use of 'midpoints' to enable them to identify the location of other numbers. | - focus on the composition of numbers within 10 , with a particular emphasis on the composition of numbers 6, 7, 8 and 9 as ' 5 and a bit', as well as exploring the composition of numbers 5 and 6 indepth <br> - explore the composition of odd and even numbers, identifying that even numbers are made of 2 s and odd numbers have 'an extra 1' they will link this to the 'shape' of these numbers. |  | - link their growing understanding of the composition of numbers within 10 to the related additive facts, including adding 2 to an odd or even number <br> - practise recalling facts in a variety of ways, including through solving simple picture problems and completing equations with a missing sum or addend, |
|  | Independence Resilience |  | Respect Team-work | Creativity Aspirational. |  |

