## A Guide to Helping Your Child with Maths

Alongside our Calculation Policy, this document aims to:

- Encourage parents to support their children at home
- Provide key information on up-to-date strategies and teaching approaches that can be continued at home
- Further inform parents of how Maths is taught at Banks Road Infant \& Nursery School



## Number Sense

Number sense is an intuitive understanding of numbers, their size, relationships, and how they are affected by operations such as adding, subtracting, multiplying and dividing.

Most children learn to count to 10 because it is like learning a rhyme.


However, it is important children have a clear understanding of the value of each numeral.

We do this by:

| Matching objects to the <br> numeral. The image shows <br> 'Numicon' but you can use <br> anything. |  |
| :--- | :--- |
| Ordering the numbers in a line. |  |

## Activities to Try for Numbers 1-10



| Musical <br> Beat the number on a drum or clap it. Can you count the beats? <br> Can you say my number? Or sing: 1,2,3,4,5 once I caught a fish alive and other number songs. |  |
| :---: | :---: |
| Games <br> Playing board games and other games involving number really does help! <br> Snakes and Ladders, Dominoes, Bingo, Skittles etc. |  |
| Baking <br> Making real and pretend cakes encourages mathematical learning opportunities. |  |

Similar activities can be used to support number recognition of 11-20, however children can get confused when it comes to 'teen' numbers and that is where place value comes in.

## Number-Place Value

To support children's understanding of number, we use a wide variety of resources and teach a range of strategies. Below are some of the main ones you may hear the children talk about.

| The 100 square <br> Can be used to support counting and recognising patterns in number sequences. |  |
| :---: | :---: |
| Dienes (Base 10) <br> Used to represent 10s and 1s when partitioning a 2-digit number. | $25$ |
| Ten Frames <br> Particularly good for identifying number bonds and patterns. | 1 2 3 4 5 |
|  | $\begin{array}{\|l\|l\|l\|} \hline 6 & 7 & \\ \hline \end{array}$ |
|  |  |
| Tens and Ones Counters Used to represent 10s and 1s when partitioning a 2-digit number. |  |

## Number-Addition and Subtraction

Please read the Power Maths Calculation Policy available on the school website for a more in depth breakdown of strategies.

| Objects <br> and <br> Resources |  | Children still need to be able to use <br> practical equipment and pictorial <br> representations. |
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| The 100 <br> Square | Encourage children to recognise the <br> changes to the digits. E.g. 23 + 10 <br> The tens digit is one more but the <br> ones have stayed the same. |  |
| The <br> Liner |  | Can be used to count forwards and <br> backwards in ones or to identify |
| Dienes |  |  |
| (Base 10) |  |  |



## Number-Multiplication and Division

| Grouping |  | Children need to recognise equal groups of $2 \mathrm{~s}, 5 \mathrm{~s}, 10 \mathrm{~s}$ and 3 s . |
| :---: | :---: | :---: |
| Repeated Addition | x | $5+5+5+5+5+5=30$ |
| Arrays |  | $6 \times 3=18$ Tip: Arrays can be <br> $3 \times 6=18$ divided with straws! <br> $18 \div 6=3$  <br> $18 \div 3=6$  |
| Written Strategies |  | Being able to re-write addition number sentences as multiplication number sentences. |
| Times Tables | $83888888$ | Children do not need to learn their times tables by heart but should be confident to count forwards in $2 \mathrm{~s}, 5 \mathrm{~s}, 10 \mathrm{~s}$ and 3 s . They should also be able to solve a range of times tables problems that encourage counting skills. E.g. How many petals are there? |
| Sharing |  | Division as sharing equally is a great way to start. There are 15 sweets and 3 friends. How many will each friend get? |

Representations Links:

| ```https://www.ncetm.org.uk/classroo m-resources/primm-1-02- introducing-whole-and-parts-part- part-whole/ https://www.youtube.com/watch?v =tOVndEcSOJM&t=66s``` | Part-whole model |
| :---: | :---: |
| https://nrich.maths.org/2479 $\frac{\text { https://www.youtube.com/watch?v }}{=\text { Glps5rOZzb0 }}$ | Ten frames seven |
| https://www.theschoolrun.com/wha t-number-line | Number line |
| https://www.youtube.com/watch?v =hgFeQA96UE8 | Bar Model$\square$$\square$20  <br> 11  |

## Other Key Areas of Maths

## Ideas for at home:

| Measurement: Money |  | Encourage children to play and use money in the home and when out and about. |
| :---: | :---: | :---: |
| Statistics |  | Choose a subject and gather data. Children could record a bar chart, pictogram or tally chart. They could draw it or make it from sticky notes or other objects. |
| Geometry: Properties of Shape |  | Look for 2D and 3D shapes in the environment and point them out. Name them and talk about their properties. <br> Build 3D structures and discuss shapes. |
| Fractions Y2 |  | Food- it sounds obvious but don't miss an opportunity to talk fractions when ordering a pizza or sharing a chocolate bar! |
| Measurement: length and height |  | Order objects from shortest to longest or smallest to tallest. Play with measuring equipment: rulers and tape measures. Pick up a paper one from IKEA |


| Measurement: <br> Time |  | Talk about time! Days, weeks, <br> months, hours and minutes. <br> When they are old enough buy them <br> their own watch and discuss key <br> times in the day. |
| :--- | :--- | :--- | :--- |
| Position and <br> Direction |  | Robotic toys are great for this or <br> programming apps on tablets. |
| Use positional language: forwards, |  |  |
| backwards, left and right. |  |  |

## Useful Links

These websites provide information and a range of games:

| https://whiterosemaths.com/resources/pri <br> mary-resources/ <br> White Rose Maths | Workbooks |
| :---: | :---: |
|  | Bitesize |
| https://www.twinkl.co.uk/search <br> Twinkl- sign up for some free resources | twīnkl |
| https://www.topmarks.co.uk/Search.aspx? Subject=16\&AgeGroup=2 <br> Search 'Maths' 'KS1' | TOP marks |
| https://home.oxfordowl.co.uk/maths/ Choose appropriate age | Oxford |
| https://nrich.maths.org/primary | NRICH |
| https://www.ictgames.com/mobilePage/in dex.html |  |



## Banks Road Infant \& Nursery School

