Dereham Church Infant and Nursery School- Mathematics

|  | Year group | Area/topic: Mathematics- Addition and subtraction within 20 |
| :---: | :---: | :---: |
|  | - Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs <br> - Add and subtract 1-digit and 2-digit numbers to 20, including zero <br> - Represent and use number bonds and related subtraction facts within 20 <br> - Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=$ ? -9 |  |


| Priox learning | Future learning |
| :--- | :--- |
| In the Autumn term, children were taught how to | Children will apply this learning particularly in <br> add and subtract within 10 |
| the next block place salue |  |

## What pupils need to know or do to be secure

- Add by counting on within 20
- Add ones using number bonds
- Find and make number bonds to 20
- Doubles
- Near doubles
- Subtract ones using number doubles

Use ten frame to complete a number story Photos of using cubes to add
Completed part whale models
Draw pictures to show doubles eg starshands etc
Photos of using counters in a ten frame to solve near double questions
Play a game, ask one child to stand on 10 and another on 20. Roll a dice and ask both children to hop back along their


| doubles beyond double 5 more challenging as they cross 10 • |  |
| :--- | :--- |
| When counting back, children may include the start number. For |  |
| example, when working out $15-4$, they may count " 15 , 14, I3, |  |
| 12 ". Children may write calculations the wrong way around if |  |
| they do not understand the importance of oxder when |  |
| subtracting, thinking that it is the same as addition, where the |  |
| oxder does not matter. For example, they may write 4-15 but |  |
| still give the answer II |  |
| Memorable first hand experiences | Opportunities for communication |
| Use a range of manipulatives. <br> Games on the playground using chalked number tracks <br> Use large pieces of A2 paper to draw ten frames and place <br> counters on. | Ask key questions and discuss <br>  |

DCINS Reasonable adjustments for pupils with SEND

## Communication and Interaction

Use a range of visual aids
Give clear instructions one at a time
Repetition
Provide simple instructions
Pre teach vocabulary
Use working wall where modelling is displayed
Give children thinking time
Model task

## Social, Emotional and Mental health

Allow access to a quiet and calm space
Give child a special role to increase self esteem Provide a visual support- what to do if you are stuck
Provide a movement break Seat pupil by more confident peer

Now and next board
Sand timers
Movement breaks
Break down tasks into small steps

## Cognition and Learning

Check understanding regularly
Allow rest breaks
Give thinking time
Colour code signs that could be confusing Work checklists
Break down tasks into small steps
Give opportunities for over-learning

## Sensory and Physical

Consider carpet space position
Reduce background noise
Provide a range of manipulatives- dienes may be
too small
Appropriate seating
Wobble boards
Writing slope Enlarge text
Variety of writing tools available

