

## Number Talks



Article 29-You have the right to education which develops your personality, respect for other's rights and the environment

## What is Number Talks?

Number Talks is a pedagogical strategy to strengthen pupils' accuracy, efficiency and flexibility in mental maths.
It is a 5 - 15 minute daily session with the whole class to develop number sense. Each session involves the children being shown only a few purposefully created calculations which they have to solve using a range of different strategies. Most of the session is based around discussion led by the children sharing and explaining the strategies they have used and learning from each other.

## The strategies

The strategies are progressive and taught discretely in class. There are strategies for addition, subtraction, multiplication and division. The table on the opposite page shows the progression between Nursery and Primary I. See the Giffnock Primary School Core Skills Progression Framework for a detailed explanation of each strategy. Strategies are taught and displayed in a variety of ways including superhero posters which can be found on the back on this booklet.

## How you can help at home

- Share a calculation with your child
- Give time for child to calculate an answer and to consider and use a range of strategies.
- Encourage child to explain the strategies they used to arrive at the answer and to share the answer with you
- Place emphasis and importance on how your child arrived at the answer rather than the answer itself
- Encourage (and even celebrate) learning through mistakes and problem solving... these are all stepping stones on the way to success

| Stage | Strategies <br> (See Core Numeracy Skills Progression Framework for a detailed explanation of each strategy) |  |  |
| :---: | :---: | :---: | :---: |
| Nursery (Early Level) | Counting On | Counting Back |  |
| Primary (End of Early Level) | Counting On Reordering Doubles | Counting Back |  |
| Primary 2 (First Level) | Counting On <br> Reordering <br> Doubles/Near Doubles | Counting Back | Repeated Addition |
| Primary 3 (First Level) | Adding up in chunks/Counting on <br> Reordering <br> Doubles/Near Doubles <br> Place Value - <br> Partitioning <br> Making tens/Bridging through 10 | Counting Back <br> Reordering <br> Place Value - <br> Partitioning | Repeated Addition |
| Primary 4 (End of First Level) | Adding up in chunks/Counting on <br> Reordering <br> Doubles/Near Doubles <br> Place Value - <br> Partitioning <br> Making tens/Bridging through 10 <br> Friendly Numbers <br> Compensation | Counting Back <br> Reordering <br> Place Value <br> Partitioning <br> Place Value and Negative <br> Numbers <br> Adding Up/Bridging through 10 | Repeated Addition <br> Doubling and Halving <br> Repeated Subtraction |
| Primary 5-7 <br> (Second Level) <br> At Second Level the children should be able to apply and use a variety of strategies. They should have developed an awareness of which strategies are more effective for a particular problem. The strategies should be revisited throughout the level through increasing complex calculations. | Adding up in chunks/Counting on <br> Reordering <br> Doubles/Near Doubles <br> Place Value - <br> Partitioning <br> Making tens/Bridging <br> through 10 <br> Friendly Numbers <br> Compensation | Counting Back <br> Reordering <br> Place Value <br> Partitioning <br> Place Value and Negative <br> Numbers <br> Adding Up/Bridging <br> through IO Adjusting for <br> Easier Numbers <br> Keep a Constant <br> Difference | Repeated Addition <br> Doubling and Halving <br> Repeated Subtraction <br> Friendly Numbers <br> Partial Products <br> Breaking Factors into <br> Smaller Factors <br> Grid Method <br> Partial Quotients <br> Multiplying Up |

