| | | | |
|---|---|---|---|
| Darlinghurst ACADEMY | **Why Maths?** |  | **SKILLS** |

## A message from Mrs Dunne, our Maths lead:

We aim to make maths as interesting and as stimulating as possible, being creative and imaginative in our teaching choices and in constantly challenging children to explain their strategies using age-appropriate mathematical vocabulary. We promote teaching maths in real life contexts so that the children understand the usefulness of the subject. We provide scaffolds for those children that need it and every lesson includes several layers of challenge.

## Design and Purpose

Maths is a core subject that links to subjects across the curriculum including Science, Design and Technology and History. At Darlinghurst, we want our children to think like mathematicians and develop a real love of maths and we believe that they can do this by applying their maths skills in all areas of the curriculum.

We deliberately layer our lessons to consolidate core number skills at the beginning of each lesson. Mental strategies are consolidated using a counting stick to secure times tables facts. Children develop a deep conceptual understanding of mathematical concepts, to develop their mathematical thinking and to use the rich language and communication surrounding maths. We aim to give children the opportunity to master maths through problem solving and reasoning. Children have opportunities to represent their mathematical thinking in many ways using concrete objects, models and images and using more traditional calculations and algorithms.

Each Maths lesson starts with mental maths games and revision of times tables using a counting stick. This is followed by a 'number crunch' where arithmetic skills are practised. Children revise previously taught concepts in the 'show' before a new concept is introduced. Key vocabulary is shared and explained before the teacher explains a new concept 'learn'. Finally children are able to demonstrate the skill and apply their knowledge as part of the 'do' and are further challenged through a 'next step' at the end of the lesson.

The progression of Maths is mapped out across the following strands:

- Number: Place value
- Number: Addition and Subtraction
- Number: Multiplication and Division
- Number: Fractions
- Measurement
- Shapes, Position and Direction
- Statistics

## Difference

Children gain a range of knowledge, skills and techniques in Maths that advance and deepen over time. Due to the connections made across the curriculum children are able to use and apply Maths to apply their skills in real-life concepts and enhance their understanding of other subjects such as Science and History.

Our children learn to be successful learners through building on their number and arithmetic skills to be able to estimate calculations and to be more accurate in their work.