

Mathematics

Purpose (Intent)

"To create a generation who have no fear of numbers!"

At New City we aim to make our curriculum creative and help develop our children's understanding and curiosity of the mathematical world which surrounds them. Our maths curriculum will provide our pupils with everyday life skills to help enable them to successfully solve problems mentally and using written forms. Our sequential curriculum which is broad and balanced will enable planning of exciting lessons which will intellectually challenge the pupils, help them progress and develop their understanding of how maths will impact their lives today, tomorrow and in the future.

Aim (implementation)

The aim of our maths curriculum is to ensure that all pupils:

- become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- can solve problems by applying their mathematics to a variety of problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Outcomes (impact)

Children are engaged in their learning and eager to widen their understanding and apply their skills. They are able to see connections between the skills learnt in class and then apply those skills to real life experiences. Our pupils will be able to solve and explain mathematical problems using concrete materials, pictorials and abstract methods. When discussing their own work, it is important that the children can explain about their methods used and understand how it can be applied to real life situations.