

Middlethorpe Primary Academy Maths Curriculum Plan

Intent

At Middlethorpe Primary Academy, we want all children to experience the enjoyment of mathematics and develop a sense of curiosity about the subject with a clear understanding. We foster positive attitudes and promote the fact that 'We can all be successful mathematicians!' We believe all children can achieve in mathematics, and teach for secure understanding of mathematical concepts through a mastery approach. We use misconceptions as an essential part of learning and provide challenge through rich problems.

Implementation

At Middlethorpe, the majority of children progress through the curriculum content at the same pace. Differentiation is achieved by emphasising deep knowledge and through individual support, the use of resources and intervention. Teaching is underpinned by methodical curriculum design and supported by carefully crafted lessons to foster conceptual and procedural knowledge. Practice and consolidation play a central role. Teachers use precise questioning in class to assess children regularly to identify those requiring intervention. The Maths Lead supports staff with this.

To ensure whole school consistency and progression, White Rose Maths long and medium term plans, which have been adapted to meet the needs of the school, are used. Mathematical topics are taught in blocks, to enable the achievement of 'mastery' over time and staff use a range materials to support them in planning carefully crafted lessons. The concept of teaching children to tell the time has been removed from the Mathematics curriculum and children are taught to do this continuously, by stopping at regular intervals throughout the day to practise this skill.

New concepts are introduced using small steps, where children are able to discuss and reason with their partners. Often, these concepts are introduced with objects (concrete manipulatives) or images. Independent learning provides the means for all children to develop their fluency further, before progressing to more complex problems. Each lesson provides the means to achieve greater depth, with children, who grasp concepts quickly, being offered sophisticated problems, as well as exploratory, investigative tasks.

To support children in developing their fluency, 'Times Table Rockstars', is an online learning platform, which is used both at school and at home, to support children in practising their multiplication and division facts.