

Maths

Intent

When teaching mathematics at The Beacon Centre, we intend to provide a curriculum which caters for the needs of all individuals and sets them up with the necessary skills and knowledge for them to become successful in their future adventures. We aim to prepare them for a successful working life. We strive to develop fluent, independent problem solvers with a deep and sustained understanding of mathematical concepts. We aim to equip our students with strong analytical skills and the ability to think independently in order to approach the diverse requirements of society. They develop resilience through their approaches to problem solving which will be a vital trait for their future. We incorporate sustained levels of challenge through varied and high quality activities with a focus on fluency, reasoning and problem solving. New mathematical concepts are introduced using a 'Concrete, Pictorial and Abstract' approach; enabling all children to experience hands-on learning when discovering new mathematical topics, this allows them to have clear models and images to aid their understanding. Arithmetic and basic maths skills are practised daily to ensure key mathematical concepts are embedded and children can recall this information to see the links between topics in Maths.

Mathematics introduces children to concepts, skills and thinking strategies that are essential in everyday life and support learning across the curriculum. It helps children make sense of the numbers, patterns and shapes they see in the world around them, offers ways of handling data and makes a crucial contribution to their development as successful learners. As their confidence grows, they look for patterns, use logical reasoning, suggest solutions and try out different approaches to problems while developing their metacognition in order to analyse their own strategies and thinking.

Across the school, we drive progress through carefully planned lessons, individually tailored to every pupil's needs. The students are encouraged to actively learn in order to make the most of their learning opportunities and are worked with closely throughout lessons in order to support and challenge them. Misconceptions are addressed in the lessons and through regular marking of the books alongside the pupil.

Assessment is carried out through marking and throughout lessons through close monitoring of the students.

Throughout both Key Stages topics are revisited across the years with consolidation and extension in order to ensure mathematical knowledge and skills are deep and sustained.

All children take part in flashback 4 in order to aid memory and retention skills and enable constant application of work already covered.