



## The Maths Curriculum

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 in an increasingly digital world and makes a crucial contribution to their development as successful learners.

Children delight in using mathematics to solve a problem, especially when it leads them to an unexpected discovery or new connections. As their confidence grows, they look for patterns, use logical reasoning, suggest solutions and try out different approaches to problems.

Mathematics offers children a powerful way of communicating. They learn to explore and explain their ideas using symbols, diagrams and spoken and written language. They start to discover how mathematics has developed over time and contributes to our economy, society and culture. Studying mathematics stimulates curiosity, fosters creativity and equips children with the skills they need in life beyond school.

### Subject Aims

The overall aim is to:

- raise standards in Mathematics.
- develop skills which enable children to use and apply numbers, measures, shape and space and data handling with competence and confidence in a range of contexts.
- develop children's skills in mental calculation by ensuring they have a repertoire of known facts and strategies to draw upon.

### Key skills

We believe that children should build secure knowledge of the following:

- generate and explore ideas and strategies, pursue lines of mathematical enquiry and apply logic and reasoning to mathematical problems
- make and test generalisations, identify patterns and appreciate equivalences and relationships
- develop, select and apply a range of mental, written and ICT-based methods and models to estimate, approximate, calculate, classify, quantify, order and compare
- communicate ideas and justify arguments using mathematical symbols, diagrams, images and language
- interpret findings, evaluate methods and check outcomes

### Curriculum and School Organisation

- We believe in a cross curricular approach to learning and providing children with high quality first hand experiences wherever possible in order to provide opportunities for them to reason and use and apply the mathematics they have been taught.
- Children are encouraged to make links between subjects and to make choices about the strategies they use and the ways in which they record their mathematical thinking
- Subject specific skills are taught and children have opportunities to develop their skills in a variety of groupings