

SMSC Subject Statements



Maths

Spiritual

Maths at Endeavour Academy supports children's spiritual growth by helping them to develop deep thinking and questioning the way in which the world works through solving rich, real-life problems. From Early Years to Year 6 you will see children are always encouraged to reason and to delve deeper into their understanding of Mathematics and how it relates to the world around them. During a maths lesson you will see children:

- reflecting on their learning and the different possible outcomes and approaches to problems;
- thinking critically and assessing the working of others, for example when using calculations;
- working through activities which inspires imagination, creativity and enjoyment;
- showing resilience to keep trying different methods;
- hands on and encouraged to see the sequences, patterns, symmetry and scale and to use maths as a tool to explore it more fully.

Moral

The moral development of children is an important thread running through the mathematics curriculum at Endeavour Academy. Children are provided with opportunities to use their maths skills in real life contexts, applying and exploring the skills required in solving various problems. For example, children are encouraged to analyse data and consider the implications of misleading or biased statistical calculations. During a maths lesson you will see children:

- interested in investigating ideas and offering reasoned responses;
- listening to others views and opinions on problem solving and appreciating them;
- discussing their mathematical understanding and challenging assumptions given to them;
- persevering, children who know it is OK to be wrong and that we can learn from our mistakes.

Social

At Endeavour Academy, problem solving skills and teamwork are fundamental to Mathematics. Maths supports pupil's social development by promoting self-esteem and building self-confidence. Maths encourages collaborative learning in the classroom in the form of listening and learning from each other and paired discussion and working with partners. During a maths lesson you will see children:

- encouraged to develop their mathematical reasoning skills, communicating with others and explaining concepts;
- developing their mathematical voice and powers of logic, reasoning and explanation by offering explanations to each other;
- who, when collaborating with others, are not afraid to voice their reasons and learn from any mistakes made;
- self and peer reviewing at the end of solving a problem to help them have an accurate grasp of where they are and how they need to improve;
- involved in workshops and team maths challenge days for examples the 'Outdoor Learning' day and the 'Happy Puzzle Workshop' and 'Maths through Stories' day where children are involved in solving problems collaboratively.

Cultural

Mathematical language is a universal language used worldwide. At Endeavour Academy we support children's cultural development by developing an appreciation with the children that mathematics, its language and symbols have developed from many different cultures around the world: e.g. Egyptian, Islamic, Roman and Greek roots.

During a maths lesson you will see children:

- investigating and exploring cross culture patterns such as tessellation and symmetry;
- using equipment and apparatus to support number and calculations such as the Chinese abacus;
- using approaches and methods taken from Singapore and Shanghai which help to visualise problems such as bar modelling.

