

## Mathematics at Eastbury

### **Intent**

Mathematics is essential for everyday life and allows us to understand the world we live in. At Eastbury, we strive to support our pupils to solve problems using critical thinking and apply the skills they have learnt in number, shape, measure and statistics to real life problems. We teach deep thinking through mastery, giving opportunities for our pupils to explain their answers and justify their reasoning. Our pupils develop knowledge and skills that support their problem-solving abilities in their work and personal lives in the future. While the usefulness of Mathematics is essential for daily living, we are encouraging and enabling our pupils to recognise the importance of Mathematics in sustaining social, cultural, economic and technological advances. We celebrate the application of Mathematics across a variety of different topics through 'Maths Day' and inspire our pupils to become empowered and critically thinking citizens, thriving in modern day London.

### **Implement**

Here at Eastbury, we teach Mathematics through the mastery approach. Our teachers plan and teach lessons using the White Rose Maths scheme and use Inspire alongside our scheme to meet all national curriculum objectives. The topics are arranged in medium term plans for each term, this is then used to plan weekly lessons. At the start of each week, pupils are introduced to: the topic, key vocabulary and concepts on the 'weekly overview'. In EYFS and KS1 the concrete-pictorial-abstract approach is embedded in all parts of teaching. This approach gives opportunities for pupils to see connections in maths and understand that problems can be represented in different ways. Our maths curriculum provides sufficient opportunities for our pupils to revisit taught units and topics in KS2. This ensures that once learnt, mathematical knowledge and the application of skills becomes deeply embedded in pupils' memories.

To champion Mathematics across the school, we have 'maths curriculum development groups' where teachers across phases meet and share ideas and monitor teaching learning across the school. We also ensure consistency through our book monitoring, lesson observations and planning monitoring, where children's progress is analysed and celebrated.

At Eastbury it is vital that all children are able to access learning and the use of 'Maths Working Walls' allows for key vocabulary and concepts to be displayed and utilised during lessons. Our SEN and EAL pupils benefit from this approach and understand the meaning of key words in the application of lessons. We have introduced the daily 'flashback cards' for quick reasoning opportunities that recap previously learnt topics, which provides opportunities for pupils to strengthen their understanding of a topic.

### **Impact**

Through considerate planning and delivery of Maths at Eastbury, our pupils experience the subject at depth and can explore innovative ways to solve problems. We consider pupils views and opinions through our Maths Ambassadors and implement changes keeping pupils' best interest in mind. Our teachers express their views on about maths through staff questionnaires and through the curriculum learning groups.

Progress is made through:

- planning and delivery of engaging lessons using White Rose and Inspire Maths to challenge our pupils

- daily 'flashcards' to practise arithmetic and reasoning skills
- weekly overviews with mathematical key vocabulary and concepts
- monitoring of planning within year groups and across phases
- weekly PPA book looks
- subject leader book looks
- consistency in teaching and learning across all classes within a year group
- celebration of the application of mathematics through 'Maths day'
- application of Mathematics in cross curricular subject i.e., Computing and Science
- use of specific media such as MyMaths and TTRockstars.

### **Cultural Capital**

At Eastbury we believe that Mathematics is a creative and highly connected discipline that has been developed and researched for centuries. It allows us to comprehend the world we live in and can be applied to all areas of life. We strive to show our pupils the importance of this subject across a wide range of topics on 'Maths Day.' Every year group focuses on the application of maths through Art, Music, History, Geography, Science, Computing, and critical thinking. Once again, this supports our vision of teaching mastery. The sequence of activities is progressive, which allows all pupils to experience the variety of application from Reception to the time they leave Eastbury.

In Early Years, Maths is carefully taught and applied to both indoor and outdoor teaching, full of meaningful and mathematical vocabulary and concepts. Children have the opportunities to explore counting, sorting, comparing, calculating and describing. Hence, providing a foundation for our children to develop into creative and critical problem solvers.

Our teachers plan and deliver lessons that encourage our pupils to apply taught skills and knowledge to the outdoors and mimicking real life scenarios through role play. By facilitating this, pupils can build a foundation of how Maths can be applied to the real world.

Pupil's work and progress is celebrated through the termly Maths Newsletter that is shared with pupils, parents, staff and governors. Displays are updated every half term in class and around the school to recognise our pupils' hard work and achievements.