



Manor Farm Infant School - Curriculum Design for Maths

Maths INTENT

At Manor Farm Infant school, we strive to ensure that the children in our care leave our school with high standards of numeracy, encouraging all pupils to work to the best of their ability.

Our intention is to ensure a depth of conceptual understanding through maths fluency, problem solving and reasoning skills. The maths curriculum is planned and sequenced utilising small step progression through concepts as well as a concrete-pictorial-abstract approach.

With this in mind we endeavour to ensure that children develop a positive and enthusiastic attitude towards mathematics that will stay with them, by fostering analytical minds and confident communicators to tackle a range of practical tasks and real-life problems.

Maths IMPLEMENTATION

EYFS

In the EYFS we provide children with many opportunities throughout the indoor and outdoor environment to develop and deepen their understanding. Learning in mathematics is taught primarily through play to develop early mathematic concepts and number sense. It is practical and active with a focus on nurturing the appropriate language to explain and support the key concepts, whilst still bearing in mind the requirements of the Foundation Stage Curriculum. Planning is based on a topic-based approach.

Key stage 1

KS1 are taught through focussed mathematics lessons using the Inspire Maths Scheme. This builds on the basic skills that they have learnt in EYFS and provides the next level of challenge to implement the National Curriculum objectives.

Teachers use the Mastery Inspire Maths scheme to assist in planning, which is enhanced by exciting and challenging problem-solving activities. Teachers adapt these plans as necessary, taking in to account assessment information for groups of children and differentiate as appropriate.

Children will be taught through demonstration, modelling, exploration and discussion using the appropriate mathematical language. Teachers teach a range of methods and use a variety of visual, aural and kinaesthetic resources to develop the concrete-pictorial-abstract approach. This allows children to be able to select from a range of strategies for both efficiency and to support success dependant on their ability. Concepts are revisited at the beginning of each lesson to build on knowledge and skills that have previously been learnt, whilst also addressing any misconceptions.

Children are actively involved through exploration, questioning and practical activities related to the learning objectives. Pupils are encouraged to explain their understanding to develop their mathematical language and gain a greater depth of knowledge.

Children are challenged to deepen their understanding by problem solving, using a variety of strategies and explaining their knowledge alongside the process they have used.

Maths IMPACT

Children will:

- Have a greater understanding of number sense and be more secure using and applying number facts
- Be able to apply their knowledge to solve a range of concepts using a variety of methods
- Become more flexible and fluent thinkers as they are exposed to the relationships between ideas and concepts
- Visualise and reason more readily due to a more in-depth understanding of the key concepts
- Be confident using the correct mathematical language to compare, explain and problem solve.

Due to the data we have collected and discussions with the teachers, we are moving to implement a new maths scheme from September 2023. We hope that this will support more of our children to be working at expected levels or greater depth.

Meeting the needs of our disadvantaged children, including Children Looked After, those eligible for Pupil Premium funding and those with SEND.

- Children are differentiated for and supported using the Concrete-Pictorial-Abstract approach at their level
- Interventions take place for children in identified areas of need

Examples of maths provision within our EYFS setting

Examples of maths provision within our KSI classes