

# Maths at Our Lady and St Edward's







## The Value of Maths

Mathematics is apparent in all aspects of our lives and helps us to make sense of our world.

Our Lady and St Edward's aims to promote the basic and wider understanding of mathematics, and hopes to instill an enjoyment in the subject by supporting children to engage and build upon their own understanding and promote further learning.

We believe that learning skills are an important aspect of mathematics but such skills are only a means to an end, therefore we aim to teach these skills in a context that provides purpose and meaning.

## Maths at school

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We aim to:

- Support children to be ambitious, making progress at their own pace. Often misconceptions cause greater difficulties at a later stage of learning. We promote real life opportunities and encourage children to revisit their thinking to ensure that they feel secure in their understanding and able to move confidently on to next steps and challenges using stem sentences to guide their understanding.
- Promote children's curiosity and enable them to take risks and learn from first-hand experience whenever necessary.
- Support the children to become fluent in mathematical understanding, recall of number facts, tables and patterns and apply this knowledge rapidly but accurately.
- Promote children's ability to reason through opportunities to discuss their thinking and understanding and problem solve and find solutions.



## Maths at school

- Maths assessments, are used throughout the year. Results from these tests will allow teachers to support those children who may need it. These children will receive extra support through interventions.
- Children of all abilities will have opportunities to use manipulatives to support their building up of skills and support them to apply to real life situations.
- Arithmetic assessments are take place with children within Years 2-6 weekly to support the children to increase the speed at which they can answer questions.

### Resources and schemes supporting our maths



Our mathematics teaching will usually follow a cycle of:

### **Knowledge Fluency, Varied Fluency, Reasoning and Problem Solving.**

#### **Knowledge Fluency**

- The knowledge of calculations and methods.

#### **Varied Fluency**

- Quick recall of facts
- The flexibility and fluidity to move between different contexts and representations.
- The ability to recognise relationships and make connections with real life contexts.

#### **Reasoning and Problem Solving**

- A deep understanding of a skill, being able to apply a skill through open ended investigations as well as trial and error.
- Opportunities to explain understanding behind a concept or problem with the support of stem sentences.