

# MATHEMATICS AT ENGLISH MARTYRS



## Maths

The aim of mathematics at our school is to enable children to improve their reasoning and problem solving skills and to gain mastery of mathematics which is central to every child achieving throughout their lives.

Teachers will make sure that the following indicators are addressed in our Maths teaching:

### Moving forward in maths

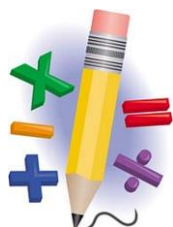
- Deepening understanding.
- Mastery approach - children will move broadly together through the age related statements.
- Children will also work in mixed ability groups - no limits on learning.
- Pupil perceptions used to shape direction of maths.
- Children are aware of their maths learning across the curriculum

### Maths lessons

- Teaching for mastery - flexibility in structure of lesson depending on learning needs.
- Carefully tailored learning opportunities which deepen understanding.
- Children have freedom to explore and explain their understanding.
- Calculation methods will accelerate children towards formal written methods at the earliest opportunities.
- Calculation methods are grounded in mental strategies and reinforced by reasoning.
- All children, regardless of ethnicity or need, will have access to the curriculum.
- Support staff will be supporting learning of all children by noticing misconceptions and informing the teacher.
- Marking - children's work will be responded to and next steps given. Children to become increasingly involved in process of marking and identifying their next steps.

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Maths

### Addressing misconceptions and stretching 'rapid graspers'



- SEN structured interventions with regularly measured impact.
- Prescriptions may be used with rapid graspers too so that they have the chance to develop their understanding further
- Overcapacity - time will be built in during the school day for teachers to address misconceptions at the earliest opportunity.
- Questions and investigations will be carefully structured to deepen thinking, enabling learners to prove their ideas through reasoning.



### Attainment and progress

- Tracking system with regular analysis of data based on summative and formative assessment.
- More frequent focused summative assessment linked with teaching for mastery- just a few questions which can be used to inform immediate planning.
- Awareness of different pupil groups - e.g. pupil premium, girls/boys in maths, significant EAL groups. Every child is making progress in the lesson.

### Links with parents

- Homework - online learning resources and activities to develop reasoning and discussion.
- Half termly maths newsletter.
- Homework that involves just talking about maths.
- Adult learning opportunities e.g. workshops.