

# Maths at Magdalen Gates



## LANGUAGE AND COMMUNICATIONS

- New language is carefully introduced.
- Key current vocabulary is displayed and referred to on working walls.
- Teachers model language expectations and pupils are expected to answer in full sentences.
- 'My turn, Your turn' is used to re-enforce language expectations.



## CONTENT & SEQUENCING

Our curriculum is organised to be cumulative. This means that mathematical concepts that are taught earlier in the curriculum are revisited in the context of a new area of Mathematics. This helps learners to make connections between different mathematical concepts. Retrieving, using and applying concepts regularly, transferring to new contexts helps develop fluency as well as conceptual understanding.

Our Long term plans dedicate a large proportion of curriculum to number and making connections in place value and calculating. We feel it is important to master the number system as these skills underpin all other areas of the maths curriculum.



## MATHEMATICAL THINKING

- Pupils are supported to be systematic, generalise and seek out patterns.
- Teachers use a range of scaffolded questions to provoke pupils to think beyond the surface.
- Pupils are encouraged to explain processes and findings, and prove their mathematical ideas.
- Pupils are given time and opportunities to fully explore mathematical concepts.



## CONCEPTUAL UNDERSTANDING

- Pupils are provided with a range of representations and encouraged to make links between them.
- A variety of manipulatives and models enable pupils to represent ideas and make connections in different ways.
- Pupils are encouraged to find multiple routes to problems.



## PROGRESSION

- Units of work are carefully sequenced so prior knowledge and skills are built upon from previous year groups and units.
- Pupils are given immediate verbal feedback in lessons to help them make progress.
- Maths meeting provide opportunities to pre-teach, recap learning, and strengthen understanding of concepts.
- Mathematics Mastery and Third Space interventions are provided to support individual pupils needs.

A Magdalen Gates mathematician has a deep conceptual understanding of the mathematic principles.

We endeavour to provide our pupils with opportunities to become confident mathematical thinkers to be able to reason, problem solve, and communicate confidently, equipping them with the skills to apply to everyday contexts.