

Maths Vision

We want our pupils to be confident, resilient and independent, able to articulate their thinking. They will understand the importance of maths to real life and be able to apply skills to reasoning and problem solving tasks.

To help them achieve this:

- We will provide opportunities for **ALL** children to become resilient by:
 - Having regular open-ended tasks for everyone
 - Focusing on the mathematical thinking rather than the answer
 - Celebrating mistakes as opportunities to learn
 - Encouraging children to be curious, imaginative and ask 'what if?'
 - Facilitating collaboration through paired and group tasks.
- We will develop problem solving and reasoning by:
 - Teaching and practising specific problem solving skills
 - Providing opportunities for all children to reason orally throughout every lesson
 - Introducing and modelling the language of reasoning through sentence stems and precise vocabulary
 - Ensuring children repeat the language modelled and use it independently
 - Up-levelling examples of reasoning
 - Using real-life contexts.
- *We will ensure children develop secure mathematical understanding by:*
 - *Using manipulatives at all ages as appropriate*
 - *Making links between the concrete, pictorial and abstract and between different calculations/concepts*
 - *Focusing on the structure of concepts*
 - *Reduce cognitive overload by developing arithmetical proficiency (embedded facts which can be recalled)*

Nothing is learned unless it rests in long-term memories