

# Maths

Maths helps us to understand the world and is an essential part of everyday life. We believe that our children have the right to high quality maths teaching to ensure that they have the knowledge and skills required to problem solve, have number fluency and see patterns and shapes in the world around them.

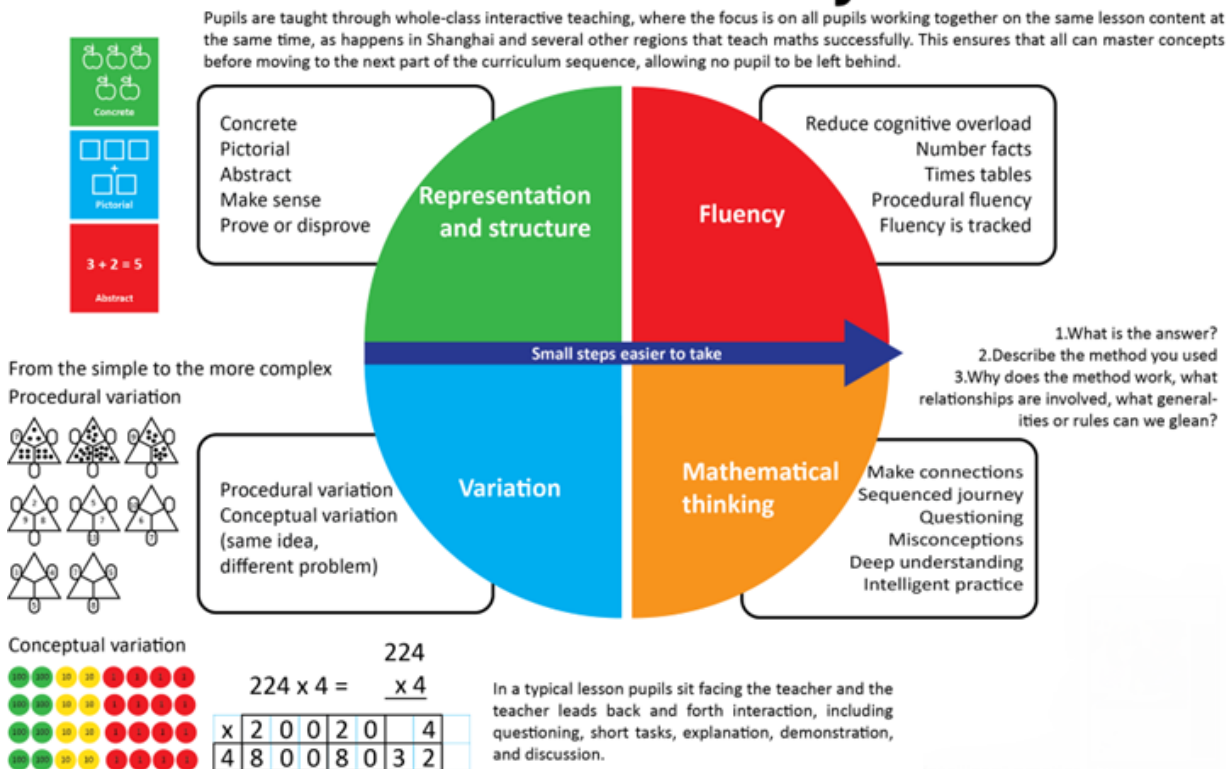


We ensure children develop firm mathematical foundations in EYFS in a way that is engaging and appropriate for their age through both adult and child led learning opportunities. We use the Ark Mathematics Mastery resources to support this.

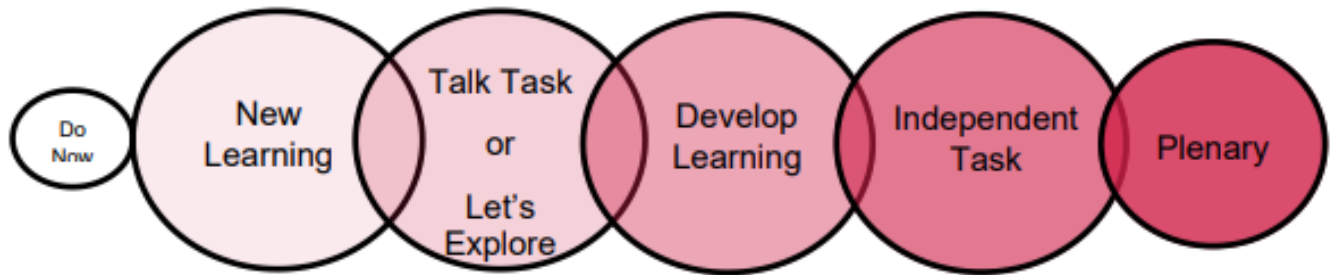
In Years 1 to 6, we build on these foundations in number and further develop fluency and knowledge in conceptual understanding through the Ark Mathematics Mastery curriculum.

Mathematics Mastery is a cumulative approach with each school year beginning with a focus on the concepts and skills that have the most connections. This concept is then applied and connected throughout the school year to consolidate learning. This curriculum enables children to use prior knowledge to develop mathematical fluency and conceptual understanding. The scheme of learning meets the requirements of the National Curriculum.

## Maths Mastery



Due to the cumulative nature of Ark Mathematics Mastery, units of work from Y1 to Y5 must be taught in the order they are planned in the long-term overview. Teaching them out of sequence will result in gaps in learning forming. Y6 teachers have more autonomy regarding the order units are taught in. Each daily Mathematics Mastery lesson has a six-part lesson structure. Each part provides opportunities to focus on conceptual understanding, language and communication and mathematical thinking for the mathematical concept being covered.



Pre unit and end of unit assessments are completed by the children. Teachers use these to assess children's starting points and unit outcomes. These enable teachers to identify and close any gaps in learning, as well as to inform on going teacher assessment. We use the half termly assessments to assess how well children are retaining this knowledge.

## Maths Meetings

Fluency is at the centre of the updated National Curriculum for maths. We want to ensure that children can count fluently and know key mathematical facts so that they are more efficient at tackling complex calculations and problems.

From Y1 to Y6, children have daily Maths Meetings to consolidate key learning outside of the maths lesson and focus on developing fluency in number facts, times tables and procedural fluency in order to reduce cognitive load when problem solving and reasoning.

In Years 1,2 and 3 we also use the Number Sense Number Facts Fluency program to help build fluency in number facts.