

Subject Overview: Mathematics

Intent

We aim to:

Develop a love of mathematics and encourage children to ask questions, investigate and explore mathematical ideas

Enable all pupils to see that maths is essential in daily life and to equip children with the vital skills and positive attitudes they need to succeed in mathematics

Enable all pupils to be confident and competent with numbers in daily life, including practical skills like being able to spot best-buy deals in the supermarket and managing money.

Promote high standards of numeracy and support children to become fluent in the fundamentals of mathematics as outlined in the National Curriculum Place a strong emphasis on the 'why' of Mathematics and not just 'how' - we support children to deepen their understanding of concepts alongside procedural fluency.

Support and encourage pupils to make rich connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems.

Enable pupils to apply their mathematical knowledge to Science and other subjects across the curriculum.

Implementation



Depth and
Breadth



CPA Approach



Manipulatives



Models and
Images

2x5

Rapid Recall



Questioning



Deep
Understanding



Scaffold and
Practice



Clear
Progression



Revisit and
Consolidate



Stretch and
challenge for all



Connections



Reasoning and
Problem Solving



Keep up not
Catch up



Assessment and
Standardised testing



Learning
Surgery

Intended Impact:

Pupils will become fluent in mathematical understanding and reasoning. Pupils will be able to explain their mathematical thinking and justify their answers, using accurate mathematical vocabulary

Mental methods are secure. Pupils have automaticity and are able to rapidly recall key mathematical facts.

Pupils can draw on a range of informal and written methods and can select the most efficient method.

Pupils can solve problems by applying their mathematics to a variety of problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Pupils can demonstrate not just that they have superficial knowledge of a concept, but that they can apply that knowledge in increasingly more complex situations and can make rich links between different curriculum areas.