



'loving our neighbour and working together to be the best we can be, for the good of all'.



BARNWOOD C OF E PRIMARY SCHOOL

Maths Blueprint

INTENT

Our Vision

- We want all pupils at our school to experience the beauty and power of mathematics and develop a sense of curiosity and enthusiasm for the subject.

Children will see the universal importance of Mathematics and will confidently and purposefully use their Mathematics skills to extend learning across the curriculum.

- They will see **teachers as mathematicians** and be inspired by their role modelling.

- Children are provided with quality time to develop their fluency with key concepts during 'Number Sense sessions'.

- Children are encouraged to express their views, opinions and ideas across a range of platforms.

- Mathematical learning follows a clear pathway of progression and is broken in to small steps of learning that is sequential to allow children to make connections and gain a deeper understanding of mathematical concepts.

- We teach a 3-part lesson design that focuses on fluency, reasoning and problem solving (Do it, Stretch it and Solve it).

- Children are encouraged to engage with Mathematical problems and use active text marking to help them solve them. This continues to promote the golden thread of reading

- Barnwood has a high quality Maths Curriculum that develops children's love of mathematics, reasoning and problem solving.

- Children will be presented with a curriculum that builds mathematical knowledge and skills systematically and in small steps.

- Children will become fluent in the fundamentals of mathematics so that they develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.

IMPACT

Our Outcomes

- Barnwood aims for 80%+ pupils to achieve National Standards, or above, in Mathematics.

- Pupil voice tells us that children are enthused by Maths and have a positive 'Can Do' attitude.

- Children at Barnwood are able to solve problems by applying their mathematics to a variety of problems with increasing sophistication, including in unfamiliar contexts and model real-life scenarios, preparing them for later life.

- Children will be self-motivated in seeking challenges and have a resilient approach to working.

- Use of appropriate vocabulary and sentence stems are modelled throughout lessons by both staff and children, allowing everyone to 'talk like a mathematician'

- Children will be encouraged to reason mathematically by following a line of enquiry and develop and present a justification, argument or proof using mathematical language.

- Children will use manipulatives to help them become active learners and make sense of the pictorial and abstract.

IMPLEMENTATION

Our Pedagogy

- Mathematics lessons will be taught discretely with many opportunities built in across the curriculum for them to use and apply their learning to real-life contexts.

- We use the Concrete, Pictorial and Abstract approach to help pupils understand mathematics and to make connections between the different representations.

- First-hand experiences are used to inspire awe and wonder and create learning opportunities that are three-dimensional; expecting pupils to be active participants and not passive observers.

- Misconceptions are used as an effective teaching tool and allow children to make mistakes in a safe and supportive learning environment.

- Times Table Rockstars will be used to develop children's fluency with their multiplication and division facts.