Mathematics Vision Statement

Our mathematics curriculum has been developed to ensure that every child can achieve excellence in mathematics. Our vision is that every child can experience a sense of awe and wonder as they solve a problem for the first time, discover different solutions and make links between different areas of mathematics. It provides pupils with a deep understanding of the subject through a concrete, pictorial and abstract approach ensuring that pupils fully understand what they are learning. To deliver our mastery approach, teachers will use Pearson's Power Maths (a DofE approved maths scheme based on the Singapore maths approach) to support teachers and children from years one to six. This will enable all children to develop a deeper understanding of the concepts taught as scaffolding, the use of concrete and pictorial materials as well as same day interventions will allow *'those who are not sufficiently fluent with earlier material* to *consolidate their understanding, including through additional practice, before moving on.' Whilst 'Pupils who grasp concepts rapidly* will *be challenged through being offered rich and sophisticated problems before any acceleration through new content.'*

Mathematics equips pupils with the uniquely powerful set of tools to understand and change the world. These tools include logical reasoning, problem solving skills and the ability to think in abstract ways. Mathematics is important in everyday life. It is integral to all aspects of life and we endeavour to ensure that children develop a positive and enthusiastic attitude towards mathematics that will stay with them.

It is vital that a positive attitude towards mathematics is encouraged amongst all our pupils to foster confidence and achievement in a skill that is essential in our society.
At Broughton CE Primary School, we use the new National Curriculum for Mathematics (2014) as the basis of our mathematics programme. We are committed to ensuring that all pupils achieve mastery in the key concepts of mathematics, appropriate for their age group, in order that they make genuine progress and avoid gaps in their understanding that provide barriers to learning as they move through education.

Through following the mastery approach to mathematical learning no child will say 'I can't do maths' but will instead, embrace the challenge of solving problems with confidence and enthusiasm.

Paired and group work encourages children to share ideas and strategies and explore different concepts in a non-threatening way. Children help each other and challenge each other, they select concrete materials to aid their understanding and draw pictures and diagrams to clarify their ideas.

Throughout the various year groups children get to experience mathematics outside of the classroom whether it is looking at volume in the water tray in early years, or by attending Maths Puzzle Club in year 6, which encourages children to see that it often takes time and flexible thinking to solve problems.