

Maths Curriculum Intents Churnet View Middle School

The vision of the Maths Team at Churnet View Middle School is to continually strive for development of excellent teaching and learning in Maths, incorporating a wide range of approaches to ensure pupils enjoy and succeed at Maths. Whilst providing pupils with a solid understanding of mathematical concepts, we aim to communicate how Maths is essential to everyday life, critical to science, technology and engineering, and necessary for financial literacy and most forms of employment. Along with supporting pupils in fulfilling their potential in the classroom, the Faculty will continue to develop the provision to appreciate the beauty of Maths and ignite pupils' passion to extend their learning outside the classroom through a range of enrichment programmes.

By the end of year 6

By the end of year 8

S H T MA

Teaching and learning of the KS2 curriculum focuses on extending students' understanding of the number system and place value in order to develop the ability to make connections between multiplication and division with fractions and decimals, percentages and ratio. We aim for our pupils to reach their full potential in mathematics, to become fluent in the fundamentals of mathematics through varied and frequent practice of increasingly complex problems, to reason mathematically using appropriate language decisively and to solve problems using a range of effective and efficient strategies. We use a range of resources to excite pupils by planning engaging and inspiring lessons to address the knowledge, skills and concepts of the National Curriculum, which are at the core of our mathematics teaching. By the end of Year 6, we expect the vast majority of our children to be fluent in written methods for all four operations, including long multiplication and division, and in working with fractions, decimals and percentages.

Students will experience transition from year 6 into year 7 through a curriculum which is based on continuity and progression in the learning process of mathematics. Teachers' awareness of teaching and learning methods employed in KS2 and that of the KS2 curriculum itself, and implementation of a programme of study which builds on the KS2 curriculum and leads to extension of this, coupled with teaching and learning of sophisticated written methods and application of topics to real life situations will enable a successful transition. Students will experience a KS3 curriculum which focuses on depth and not breadth, a curriculum which will support students with gaining deeper understanding of topics and development of reasoning skills. The curriculum also aims to enable students to recall and apply key knowledge and apply a structured and logical approach to problem solving effectively. This, in turn, will provide students the ability and confidence to access the KS4 curriculum and in being successful in the GCSE in mathematics. Teaching and learning will also incorporate opportunities to carry out independent research and study, and to make cross-curricular links.