

How the Maths Department addresses the Whole school Curriculum Intent

Our aim is to provide an excellent and relevant education for all our students so that we are 'Shaping Exceptional Futures' and are living our principles. We will do this by ensuring our curriculum:

Whole School Curriculum Intent	How the Maths department addresses that intent
<ul style="list-style-type: none"> is centred around The National Curriculum. 	<p>The Mathematics National Curriculum is broken down into manageable, carefully sequenced small steps which facilitate a deeper understanding of mathematical concepts.</p> <p>This enables all pupils to fulfil the National Curriculum aims of becoming fluent in the fundamentals of mathematics, reasoning mathematically and solving problems in different contexts.</p>
<ul style="list-style-type: none"> teaches students to be effective communicators, think for themselves and be literate and numerate. 	<p>Pupils are encouraged to take an interest in the maths around them and to ask questions such as 'how' and 'why'. The use of key mathematical language and vocabulary is modelled, enabling pupils to clearly communicate mathematical concepts and ideas and explain their reasoning. Teachers ensure that pupils build foundations by using discussion to explore and remedy misconceptions.</p>
<ul style="list-style-type: none"> teaches students how to learn. 	<p>Pupils are encouraged to become resilient and independent learners. Emphasis is placed on pupils being able to recall and deploy facts and methods with speed and accuracy and therefore free up working memory. This is supported through initiatives such as Times Table Rockstars and Numeracy Form Time which give pupils the opportunity to increase levels of procedural fluency and practise core knowledge. The opportunity to practise content which has previously been taught and aid retrieval is given through the 'Do It Nows' at the start of every lesson. Good practise is</p>

	modelled through worked examples and Knowledge Organisers are used to support pupils' learning. Sequences of learning allow pupils to access the facts and methods that they need to learn strategies for solving problems.
<ul style="list-style-type: none"> teaches the knowledge and skills to enable students to be active and engaged participants in society. 	Links are made within the maths curriculum to enable pupils to transfer knowledge and skills to different subjects, situations and promote the use of mathematics in 'real life' contexts.
<ul style="list-style-type: none"> teaches a wide range of subjects and provides quality time for students to participate in a wide range of extracurricular opportunities, so as to enrich their personal development and broaden the quality of education. 	The maths department provides a range of extracurricular opportunities to enrich pupils' learning journey including various lunchtime and after school clubs such as Chess Club and Manga High Club. We build on the cultural capital of our students by whole year group initiatives such as the Rainforest Cross Curricular Project. Maths specific events include learning about number systems from different cultures eg the Mayan base 20 numeral system. In addition, pupils are introduced to the stories of some of the most influential mathematicians throughout history and the impact their work has had on the world we live in.
<ul style="list-style-type: none"> teaches and encourages students to have high aspirations. 	Our Mathematics Curriculum is ambitious, challenging and all pupils have access to the full curriculum. It encourages our pupils to have a Growth Mindset and a 'we can' attitude to mathematics. Teachers have high expectations of all pupils regardless of their previous level of attainment.

Curriculum Intent statement