

MATHEMATICS

Intent	
What are the aims of this subject?	What are the broad areas of knowledge and skills being developed in this subject?
Mathematics is an essential element of	1 Number
everyday life and mathematical thinking	
enables students to have a deeper	2 Algebra
understanding across the curriculum.	
We deliver maths in a variety of ways which	3 Ratio, proportion and rates of change
are meaningful and purposeful, in order to	
empower students with the knowledge and	4 Geometry and measures
understanding of the fundamentals to	
make progress in their learning.	5 Probability
As student's progress through the school,	
they learn how to make sense of numbers	6 Statistics
and patterns in the world	
around them and discover new	
connections.	
They learn to explore and explain their	
thinking and become more able to	
manipulate mathematical ideas to be able	
to solve problems. Students are	
encouraged to understand the value of	
maths in different aspects of life, such as	
economy, culture and society and to know	
how to use it as a tool to lead them to	
greater independence. We aim for our	
students to be confident to recall key facts	
that support learning in real-life contexts	
and across different subject areas.	



Implementation How is this subject delivered/taught to How is formative and summative students? assessment used in this subject to improve student's skills and knowledge? The Edexcel baseline assessment identifies Maths is an interconnected subject, therefore a sequenced and mastery students' starting points. Knowledge, curriculum is designed to encourage understanding and levels of attainment are students to become fluent through assessed in maths in a number of ways varied and frequent practices with incorporating both formative and increasingly complex problem solving over summative. time. Staff make learning as Daily marking, observations, Discussions meaningful and visual as possible. Concrete with pupils, focussed questioning, direct resources and pictorial representations are and open questions allow staff to assess used to support learning. Pupils' next steps (and gaps in knowledge and understanding of concepts understanding) are made obvious to them taught. Individual topic tests, end of unit through the use of Arbor, and KPI grids tests, are used before new units are taught. which are in their books. How is enrichment (e.g. residentials, clubs) How are spiritual, moral, social and implemented to enhance the components cultural values developed in this subject? of this subject? Local trips are used to develop a deeper Spiritual - Students are encouraged to understanding of application numbers, recognise their strengths and celebrate money, direction and the concept of time. their own and others success. An Work experience will further strengthen underpinning drive to develop students the understanding that mathematics plays who are resilient, determined a crucial role in virtually every sector of and respectful through self and peer employment. assessments. Moral - Students are encouraged to take risks and learn from experiences in math to develop their skills further. Social - Promoting values of tolerance and resilience through problem solving. Cultural - Students work inclusively

Impact - Top 5!

together with mutual respect.

1

The maths curriculum ensures that the needs of all children will be met through high quality teaching.

2



The tracking of progress shared with students enables them to clearly see their next steps, and for staff to target gaps.

3

Behaviour for learning in maths encourages students to take pride in their achievements.

4

Students are given the chance to achieve success in a variety of qualifications along with the GCSE.

5

In Summer 2022, all students who sat the GCSE maths exams achieved a grade.