



# Curriculum Statement: Mathematics

*Mathematics is not about numbers, equations, computations or algorithms: It is about understanding – William Paul Thurston*

## Curriculum Rationale

- To provide breadth and balance in student's understanding of numeracy, algebra, geometry and statistics
- To establish a level of 'cultural capital' which allows students to develop transferable skills and knowledge
- To ensure students can use their mathematical skills in everyday life
- They should leave with the knowledge and understanding of mathematics required to engage in society, to reason and problem solve, and to access further study
- To build an enjoyment and confidence in maths to give students the option to continue their studies in the subject

## Curriculum Progression & Strategies

- In Year 7 students are taught an introduction to each strand in maths, number, algebra, geometry, statistics, all of which is then built upon in years 8 and 9.
- There is differentiation in all year groups so that students working at developing, assured and extended can be challenged in relation to their starting point
- Content covered at KS3 prepares students of all abilities to access KS4 and reach GCSE grades 1 – 9
- Knowledge organisers match the topics taught in each unit.
- EPA asks students to reflect back on the previous unit.
- Starters link to prior learning or application of learning in the 'real world'
- Knowledge checks are used as mini topic tests at the end of a unit – they have already been designed to be differentiated for the range of abilities that we teach to
- Modelling and questioning is used in all lessons to check understanding of content and to challenge pupils in how new knowledge is applied.

## Curriculum Enrichment

- Code breaker has been in to show year 7s how coding was used in WW2
- KS3 'finance lesson' delivered as a 'big teach' in the hall to show students how to use your salary to determine affordability
- Year 11 girls taken to Oxford University to hear about studying maths after GCSE and the importance of studying maths