



Year 11 - Mathematics

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	Integers, powers and roots; Sequences, functions and graphs; Angles and shapes; Averages; Probability; Ratio and Proportion	Expressions and Equations; Accuracy of calculations; Constructions and loci; Transformations; Pythagoras and Trigonometry	Representing data; Fractions, decimals and percentages; Volume and surface area; Indices	Ensuring students are exam ready based on PPE feedback	Exam preparation	
Assessment	Exam paper practice	PPE	PPE	Exam paper practice	Final GCSE examinations consisting of 3 papers - Paper 1 (non-calculator 1h30), Paper 2 (calculator 1h30), Paper 3 (calculator 1h30)	

Building on Prior Learning	Maths builds knowledge by revisiting sequenced topics. Recapping prior learning before further teaching ensures that students link ideas and see how lessons fit together in a logical manner.
Links with other subjects	The department has close links with other subjects, particularly Science, Music and subjects such as Design Technology, Economics and Business Studies. Topics include the use of fractions, decimals and percentages; proportion; plans and elevations and constructions; graphical representations; standard form; order of operations; accuracy and interpreting data.
Extracurricular opportunities	Count Me In runs every week. Students are encouraged to participate in House competitions run throughout the year. The School participates in the National School Maths Challenge, giving our best mathematicians the opportunity to compete against others from schools nationally.
A successful learner in this subject will demonstrate	Successful maths students will be well organised and be good with numbers. Learning from their mistakes, successful students will know their tables and use logic and organised thought to work through problems, looking to find solutions rather than giving up.
Impact on personal development	Maths will help students to become logical thinkers, problems solvers and will help them to develop resilience.

Ways to support student learning in this subject
<ul style="list-style-type: none"> encourage the use of mental arithmetic e.g. working out change in a shop, or percentage changes in a sale, or working out the speed or time of a journey making sure that homework is always completed on time and encouraging a proactive attitude to full completion encouraging regular revisiting of the notes in their red books be positive about maths - being 'rubbish' at maths is not something to brag about encourage attendance to 'Count Me In'



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