

Mathematics

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	Integers, powers and roots; Calculations and accuracy; Sequences	Lines, shapes and angles Constructions and loci; Fractions, decimals and percentages	Ratio and proportion; Simplifying & Substitution; Measures	Fractions, decimals and percentages; Area and perimeter; Sequences and functions.	Forming and solving equations; transformations; Number recap	Statistical enquiry; Presenting and interpreting data
Assessment	Baseline test	Written test	Written test	Written test	Written test	Written test and end of year PPE

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 Economics and Business Studies. Topics include the use of fractions, decimals and percentages; proportion; 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 Access class competes in the Sumdog county and national challenges. D and R groups participate in the UKMT Junior Maths Challenge, giving our best mathematicians the opportunity to compete against others from schools. Trips such as a Bletchley Park visit enable students to see maths in action.
A successful learner in this subject will demonstrate	Successful maths students will be well organised and be fluent with numbers. Learning from their mistakes, successful students will know their tables and use logic, reasoning 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. They will be able to apply mathematics in other subjects.

Ways to support student learning in this subject
<ul style="list-style-type: none"> • encourage them to learn their times tables up to 12 • 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 • be positive about maths - being 'rubbish' at maths is not something to brag about