

Mathematics - Year 10

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	Integers, powers and roots; Lines, angles and shapes; Calculations and accuracy; Measures Represent and interpret data	Simplifying and Substituting; Fractions, decimals and percentages; Constructions and loci; Represent and interpret data	Area and perimeter; Forming and solving equations; Ratio and proportion; Data collection techniques	Pythagoras and Trigonometry; Sequences and functions; Problem solving; Data collection techniques	Ratio and proportion; Transformations; Volume and surface area; Problem solving; Probability	Revision; Problem solving
Assessment	Written 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, Business Studies and PE. Topics include the use of fractions, decimals and percentages; proportion; graphical representations; standard form; order of operations; Data collection; accuracy and interpreting data.
Extracurricular opportunities	Count Me In runs every Wednesday until 1630. Students are encouraged to participate in House competitions run throughout the year.
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

- encourage students to learn their times tables up to 12, square numbers up to 15^2 , cube numbers up to 5^3 and prime numbers under 30.
- 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
- encourage them to revise previous topics from their red book and using the PiXL Maths App.
- making sure that homework is always completed on time
- be positive about maths - being 'rubbish' at maths is not something to brag about



**DROITWICH SPA
HIGH SCHOOL**
AND SIXTH FORM CENTRE

Life. Changing. Learning.