

SUBJECT: A Level Mathematics	YEAR: 12
HEAD OF DEPARTMENT: Mrs L Crowthers	
GROUPING POLICY: Years 12 and 13 are taught separately	
<p>COURSE CONTENT</p> <p>Students will follow the Edexcel Mathematics Specification:</p> <p>https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.html</p> <p>The Mathematics course consists of three main areas:</p> <p>Pure Mathematics, Mechanics and Statistics</p> <p><u>Pure Mathematics</u> has 10 topics</p> <p>Topic 1: Proof</p> <p>Topic 2: Algebra and functions</p> <p>Topic 3: Coordinate Geometry</p> <p>Topic 4: Sequences and Series</p> <p>Topic 5: Trigonometry</p> <p>Topic 6: Exponentials and Logs</p> <p>Topic 7: Differentiation</p> <p>Topic 8: Integration</p> <p>Topic 9: Numerical Methods</p> <p>Topic 10: Vectors</p> <p><u>Statistics</u> has 5 topics</p> <p>Topic 1: Statistical Sampling</p> <p>Topic 2: Data presentation and interpretation</p> <p>Topic 3: Probability</p> <p>Topic 4: Statistical distributions</p> <p>Topic 5: Statistical hypothesis testing</p> <p><u>Mechanics</u> has 4 topics</p> <p>Topic 6: Quantities and units in mechanics</p> <p>Topic 7: Kinematics</p> <p>Topic 8: Forces and Newton’s Laws</p> <p>Topic 9: Moments</p>	

What will homework look like?

Homework will be most frequently related to the assessment of the current topic being studied. This may take the form of set learning tasks or questions from the provided text book, or questions from previous examination papers. It may take the form of a research task that helps to support the introduction of a new unit of study. Students will be encouraged to explore and evaluate different methods for revision to identify their preferred learning style.

ASSESSMENT

Students will sit written exams. Calculators can be used on each paper.

Examinations:

There will be 3 two hour exams:

- Paper 1 assesses content from Pure Mathematics
- Paper 2 assesses content from Pure Mathematics
- Paper 3 assesses content from Statistics and Mechanics

ADDITIONAL INFORMATION**How can I support my child in this subject?**

It is important that your child is doing work outside the classroom, and practising all the topics. If a student misses a lesson, they should make sure that they have caught up the work and practised the exercises before the next lesson.

How can I support my child with exams?

Students have access to a wide range of resources both electronic and also paper versions. Examination practice is essential to succeed at A level and students need to structure their revision so that they have time to practise their skills. In this subject students need to regularly work on past paper questions so any revision timetable must be well planned and adhered to. Independent study is very important but students should also be encouraged to seek help whenever necessary.