Course teachers

• Ms N Angel, Mr C Stanford & Ms E Tastsoglou

Exam board: Edexcel (www.edexcel.com)

Assessment Scheme

The course is assessed through three examinations at the end of Year 13:

• Paper 1 & Paper 2 : Pure Mathematics

Proof, Algebra and functions, Coordinate geometry, Sequences and series, Trigonometry, Exponentials and logarithms, Calculus, Numerical methods, Vectors

Paper 3: Statistics and Mechanics

Section A: Statistics

Statistical sampling, Data presentation and interpretation, Probability, Statistical distributions, Hypothesis testing

Section B: Mechanics

Quantities and units in mechanics, Kinematics, Forces and Newton's laws, Moments

All 3 papers are 2-hour written examinations worth 33.33% each. 100 marks per paper.

Course expectations

- Complete a **minimum** of 5 hours independent study per week (see middle pages).
- Attend the timetabled additional study sessions compulsory if you are below your target grade.
- Be resilient. Don't give up. Make the effort that is required to be successful.
- Ask for help. Email your teachers when outside lessons and we can arrange one to one sessions as needed.
- Follow our advice...we know what it takes for you to succeed!

Shoeburyness High School

Sixth Form

Start of Course Information Mathematics Advanced-Level

A-Level Mathematics is challenging. It is a highly academic course, with very high expectations. You must be prepared to work exceptionally hard from the start of the course if you want to be successful.

But as a result, Mathematics is also very rewarding. When you successfully solve a problem using skills you have had to develop through hard work and persistence, you will know that your effort was worthwhile.

When you achieve a good grade in A-Level Mathematics, you will open up a world of opportunities.

Shoeburyness High School Sixth Form September 2020

 Review the week's class notes All notes and examples given in the lesson should be recorded in a separate note book. Revision/prompt cards should be made & revised using these note. Any helpful hints and tips as well as solutions to questions with which you needed help should be included in your notes. Have these with you when you are working independently. Ask for clarification if you do not fully grasp the concepts when you review. Email your class teacher what you need help with and we can plan a time to support 	A-Level Mathematicians : You must complete a minimum of 5 hours of independent study per week!	 Read the text book/revision guide/webpages Use the online Activebook at www.pearsonschools.co.uk Use websites such as www.MathsWatch.co.uk & www.DrFrostMaths.com Ask for additional material or download worksheets from www.physicsandmathstutor.com Make good use of examples and explanations in the text book
 Learn everything! All methods and formulae must be learnt, regardless of whether they appear in the formula book (This should only be used as a prompt) The best way to learn maths is to do it! You must do every question that is set. 	 Complete past paper questions Sample questions appear in the text book exercises and are marked accordingly. All must be done. You will be given past paper and exam-style questions. It is essential that you ask about any you struggle with, regardless of whether you are able to work it out with help from the mark scheme/peers. 	 Read around the subject It is helpful to research topics you find difficult, but it is vital that you ask for further explanation from your teachers. They can identify exactly where your stumbling blocks are and give you the personal support you need. Full understanding will enable you to transfer skills and knowledge to other complex questions better than looking at the answers and saying "I think I see"