

Mathematics

- **Exam board: Pearson Edexcel**
- **Course work or exam? 100% exam**
- **What will I learn about?** Students will learn content from three different modules of Mathematics: Pure Maths, Statistics and Mechanics. Some of the topics that they will cover are calculus (the study of continuous change), proof, trigonometry, probability, statistical distributions, hypothesis testing, forces, moments and projectiles. A common theme across all topics and modules is the use of mathematical modelling to explain the world around us. A mathematical model allows humans to see what affect changing a variable will have on a system. These systems could occur in the natural sciences, engineering and the social sciences.
- **Great for:** Mathematics is a versatile subject and gives you flexibility about what degree you take or the career you have afterwards. You could end studying mathematics at University because you enjoy maths. Perhaps you want to have a wider impact on the world and you could use maths in the social or natural sciences or on an engineering course. You could even use maths to make a lot of money by using it on a business and finance course.

Student view: *"I would encourage students to study Mathematics as it is interesting, logical and it makes sense. It gives me a great sense of achievement when I use acquired skills to solve problems, previously unseen."*

Mary Woodfear, Year 12