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| C:\Work\Website\Website Resources\School Logos\Toot Hill College\THSFC_Badge.pngSUBJECT: Mathematics  EXAM BOARD: AQA | |
| Course Overview (Y12) | **Pure Maths**  Proof, Indices & Surds, Quadratic Functions, Polynomials, Using Graphs, Coordinate Geometry, Logarithms, Exponential Models, Binomial Expansion, Trigonometric Functions & Equations, Triangle Geometry, Differentiation, Applications of Differentiation, Integration.  ***Mechanics***  Vectors, Introduction to Kinematics, Motion with Constant Acceleration, Forces & Motion, Objects in Contact.  ***Statistics***  Working with Data, Probability, Statistical Hypothesis Testing. |
| Useful websites | [www.aqa.org.uk](http://www.aqa.org.uk) - specification, specimen papers.  <http://www.mathcentre.ac.uk/> - support materials, free of charge. There are a variety of resources - self study guides; test yourself diagnostics and exercises; video tutorials; and case studies. Resources are available on-line, and may be printed or downloaded.  <http://plus.maths.org/content/> - *Plus* is an internet magazine written by the Millenium Mathematics Project which aims to introduce readers to the beauty and the practical applications of mathematics.  Sources for A Level revision when you get there: <https://alevelmathsrevision.com/a-level-maths-tutorial-videos-all/> ; <https://www.mathsgenie.co.uk/newalevel.html> ; <https://www.physicsandmathstutor.com/a-level-maths/past-paper-questions-by-topic/> ; |
| Essential text books and reading list | A Level Mathematics for AQA Student Book 1 (AS/Year 1)  A Level Mathematics for AQA Student Book 1 (AS/Year 1) **[All students must have this]**  Authors: Stephen Ward, Paul Fannon  Publisher: Cambridge University Press ISBN-13: 9781316644225  You will also require a **Casio FX-991CW** ClassWiz calculator (or a graphics calculator – we recommend the **Casio CG 50**). The Casio FX-991CW will be available through the school system Scopay at an approximate cost of £25 |