

**Overview:**

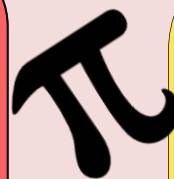
Year 12 students will study topics from three different areas. These are Pure Maths, Statistics and Mechanics.

There will be regular assessment throughout the year enabling you to track your progress.



MATHEMATICS

Year 12

**Term 3:**

During the third term in Year 12 you will continue your study of Calculus by learning about Integration. You will also be introduced to the Laws of Logarithms.

In Mechanics you will look at the topic of Variable Acceleration.

In the final half of the Summer term you will study Mathematical Proof as well as Algebraic and Partial Fractions. You will also study Functions and Modelling and Series and Sequences.

Term 1:

For the first half of this term you will study Pure Maths topics including algebraic expressions, quadratics, graphs and transformations and equations and inequalities. You will also begin the Statistics and Mechanics units. The Statistics topics include Statistical Sampling and Data Presentation and Interpretation whilst the Mechanics topics include Modelling and Kinematics.

The second half of this term covers Algebraic Methods, Straight Line Graphs, the Binomial Expansion and Circles. In Statistics you will use Venn diagrams and look at Mutually Exclusive and Independent Events.

**Term 2:**

This term you will begin your study of Calculus with an introduction to Differentiation. You will increase your knowledge of Trigonometry by looking at Trigonometrical Identities, Equations and Ratios. You will also work with Vectors using both Column Vectors and i and j Vectors

The Statistics unit continues with Hypothesis Testing whilst the Mechanics module continues with Forces and Motion.