

MATHS STATEMENT OF AIMS

THE AIM OF THE KS4 CURRICULUM IS TO DEVELOP...

SUCCESSFUL LEARNERS

Maths is a creative and highly inter-connected subject that has developed over centuries. It is essential to every day life. Maths provides a foundation for understanding the world and allows the students a sense of enjoyment and curiosity of the world around. Maths will build upon the soft skills required to make students successful, such as communication and teamwork, which will also be developed through discussions in class and through the Unifrog CIAG platform.

CONFIDENT, INSPIRED INDIVIDUALS

Maths students will become fluent in the fundamentals, number, algebra, geometry, ratio, probability and statistics. They will be able to reason mathematically and solve problems in differing situations. Students develop those key numeracy skills required for any career.

ASPIRING, RESPONSIBLE CITIZENS

Maths aims to help students develop problem solving skills that can be transferred to all aspects of modern life. Students work in groups and learn to be active listeners that work together to solve problems.

CURRICULUM MAP KS4

| | AUTUMN 1 | AUTUMN 2 | SPRING 1 | SPRING 2 | SUMMER 1 | SUMMER 2 |
|------------|--|--|---|---|---|---------------------------------------|
| Y10 | <i>Algebraic manipulation Equations, inequalities and formulae Quadratic expressions and equations</i> | <i>Percentages Ratio and scale Working with fractions Non calculator methods</i> | <i>Straight line graphs Probability Rounding and estimation</i> | <i>Perimeter, area and volume Interpret and represent data</i> | <i>Non-linear graphs Angles Graphs and diagrams Pythagoras and trigonometry</i> | <i>Factors and powers Vectors</i> |
| ASSESSMENT | Cumulative assessment of Autumn term | | Cumulative assessment of full year | | | |
| Y11 | <i>Ratio and proportion Area and volume Area and volume</i> | <i>Sequences and proof Standard form Working with circles Set notation and Venn diagrams</i> | <i>Functions and graphs Equations and formulae Rates</i> | <i>Angles, bearing and trigonometry Construction and loci Transformations</i> | <i>Bespoke SOW</i> | <i>EXAMS</i> |
| ASSESSMENT | PPE 1 | | | | | |