STAFFORD
SIXTH FORM

Course title: Mathematics A Level Pearson

Academic year:	2027
Course Venue:	Blessed William Howard Catholic High School
Course Type:	A Level
Duration:	2 years

Course Description: This course is for students who enjoy a challenge. They will build on work introduced at GCSE but also experience new concepts that have been produced by some of the greatest minds of the millennium. It serves as a very useful support of many other qualifications, as well as being a much sought after qualification for the work place and courses in higher education. The course followed at Blessed William Howard is divided into Pure Mathematics and Applications. Pure Mathematics develops knowledge of such topics as algebra, trigonometry and calculus. The Applications paper is divided equally between Statistics and Mechanics. Topics such as statistical analysis and probability will be assessed alongside kinematics and moments.

Course Content:

Pure maths: - Topic 1 – Proof ● Topic 2 – Algebra and functions ● Topic 3 – Coordinate geometry in the (x, y) plane ● Topic 4 – Sequences and series ● Topic 5 – Trigonometry ● Topic 6 – Exponentials and logarithms ● Topic 7 – Differentiation ● Topic 8 – Integration ● Topic 9 – Numerical methods ● Topic 10 – Vectors

Applied maths - : Statistics ● Topic 1 – Statistical sampling ● Topic 2 – Data presentation and interpretation ● Topic 3 – Probability ● Topic 4 – Statistical distributions ● Topic 5 – Statistical hypothesis testing Section B: Mechanics ● Topic 6 – Quantities and units in mechanics ● Topic 7 – Kinematics ● Topic 8 – Forces and Newton's laws ● Topic 9 – Moments

Entry requirements: The standard entry criteria to study in the sixth form are a 9-5 in at least five different subjects, including English and mathematics, which would usually be at grade 4 or above.

To study mathematics, you will be required to have achieved a grade 6 at GCSE.

Assessment:

All exams will be sat at the end of the second year of study

Paper 1: Pure Mathematics 33.3%

Paper 2: Pure Mathematics 2 33.3%

Paper 3: Statistics and Mechanics 33.3%

Financial Information: Nil

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Future opportunities: Mathematics serves as a very useful support for many other qualifications, as well as being a much sought after qualification for the work place and courses in higher education.

Further Information: Students may use a calculator in all A Level Mathematics examinations. Calculators used must include the following features:

- an iterative function
- the ability to compute summary statistics

For more detailed content please see the online specification at Pearson qualifications.