



## Wirral Grammar School for Boys 6<sup>th</sup> Y11 A-level Options 2022.

### FAQ Information Sheet for: Mathematics and Further Maths

#### *How is the course structured?*

It is split into two sections: Pure and Applied

2/3 of the course is Pure Maths (7 lessons per fortnight)

Teachers: Mr Low

Mrs Efraimidou

Dr Alkunshalie

Mrs Turner

Mr Thomason

#### **Pure Content overview:**

Proof, Algebra and functions, Coordinate geometry in the (x, y) plane,

Sequences and series, Trigonometry, Exponentials and logarithms, Differentiation, Integration, Numerical methods, Vectors

1/3 of the course is Applied Maths (3 lessons per fortnight)

Teachers: Mr Hynes

Mr Griffiths

#### **Applied Content overview:**

##### **Section A: Statistics**

Statistical sampling, Data presentation and interpretation, Probability, Statistical distributions, Statistical hypothesis testing

**Section B: Mechanics** Quantities and units in mechanics, Kinematics, Forces and Newton's laws, Moments

### ***Am I good enough to study A-Level Maths or Further Maths?***

You will need a minimum Grade 7 to be allowed to start A-Level Maths. A high Grade 7 is highly recommended for reasons mentioned below.

You will should have a high Grade 8 or a Grade 9 in order to begin studying Further Maths.

### ***What is Further Maths?***

Further Maths is an extra A-Level you study on top of the standard A-Level Maths. You get a separate grade for it. Some students take it as a 4<sup>th</sup> A-level. These students need to be exceptionally good at Math as well as being exceptionally hard working.

### ***Is A-Level Maths difficult/How well am I likely to do?***

Yes, A-Level Maths is VERY hard and became much more difficult after 2017. It takes a massive amount of time and effort to gain a worthwhile grade.

Statistics published this year showed that if a student starts A-Level Maths with a low GCSE Grade 7 then the most common A-Level outcome is Grade D.

However, if a student starts with a high Grade 7 then the most likely outcome is a grade B (assuming the students work hard).