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Case Study Ysgol Brynhyfryd

Address Mold Road,  
Ruthin,  
Denbighshire,  
LL15 1EG

Number of  
students aged  
16 – 18 2013/14



### Case Study:

**Teacher – Colin Fleming, Head of Mathematics**

### Further Maths Delivery:

I decided to introduce AS Further Maths to a particularly able group alongside their A2 Mathematics using only the allocated A2 time and occasional lunch time sessions. At this time I came across the FMSP Wales site and their resources. Five students who sat the exam all got grade A in AS Further Maths and 2 others attended some of the extra lessons as they enjoyed the extra challenge but did not want the extra examination commitment.

Further Maths was managed to be timetabled for Year 13 the next year and 9 students followed the course. Six students sat AS and all got grade A. Three of the students only followed the FP1 module as they wanted to improve their A2 mathematics. This worked as two gained an A\* and the other a grade A.

The following year budget cuts prevented the course being offered in house. The FMSP programme was used with a tutor coming into school to teach 3 year 13 students.

This year a tutor has been coming in to school to teach 3 year 13 students who intend to go on to study physics and Engineering. They have all found the extra rigour of the course has benefited their A Level Maths study as well as providing a broader foundation for future study.

### Benefits of Studying Further Mathematics?

- The introduction of Further Maths at AS level seems increasingly important. Studying Further Maths is beneficial for any student who intends to pursue a degree

in a STEM subject and statistical techniques would also support Geography and Psychology and mechanics would support Physics and be a good preparation for Engineering.

- The students found the FMSP resources extremely beneficial.
- The students have found the extra rigour of the Further Maths course has benefited their A Level Maths study as well as providing a broader foundation for future study.
- During the last 2 years, students have attended study days and revision sessions provided by FMSP at Bangor University which have provided an excellent consolidation of knowledge.
- FMSP Wales is also increasing CPD courses that will develop maths staff skills and consequently enrich mathematics taught in our schools.
- I feel it is essential that the FMSP should be extended to Denbighshire, Flintshire and Wrexham to provide a catalyst that ensures that all students are given the opportunities to further develop their mathematical skills and consequently have a more skilled workforce in Wales.