St Bede's Catholic College

Year 11 into 12 Transition Work

Further Mathematics

Please note that you must study A level Mathematics to be able to study A level Further Mathematics

Exam board: Edexcel

Course length: Two years

Specification:
https://qualifications.pearson.com/content/dam/pdf/A%20Level/Mathematics/2017/specification-and-sample-assesment/a-level-l3-further-mathematics-specification.pdf

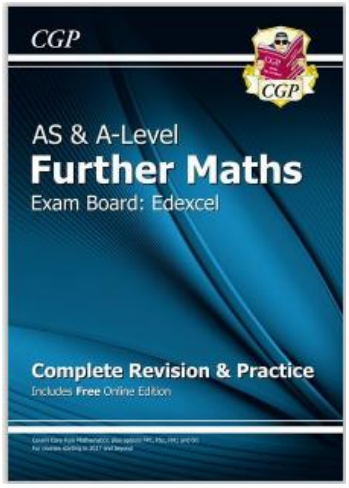
Exam structure:

4 Exams at the end of 2 years:

Paper 1: Core Pure Mathematics 1 25% 1 hour 30 mins 75 marks	Compulsory Either Paper can contain questions on any topic from the Pure Mathematics content.
Paper 2: Core Pure Mathematics 2 25% 1 hour 30 mins 75 marks	Topics include: Proof, Complex numbers, Matrices, Further algebra and functions, Further calculus, Further vectors, Polar coordinates, Hyperbolic functions, Differential equations
Paper 3: Further Mathematics Option 1 25% 1 hour 30 mins 75 marks	Students take two optional papers with options available in • Further Pure Mathematics
Paper 4: Further Mathematics Option 2 25% 1 hour 30 mins 75 marks	• Further Statistics • Further Mechanics • Decision Mathematics

Options for year 13 will be chosen in line with the interests and strengths of the pupils. Examples could be further mechanics, decision mathematics or further pure mathematics.

Useful textbooks:



CGP (Edexcel) New AS & A-Level Further Maths for Edexcel: Complete Revision & Practice with Online Edition

Useful websites:

www.drfrostmaths.com
https://crashmaths.com/
https://www.examsolutions.net/a-level-maths/edexcel/

Sample/past papers:

https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.coursematerials.html#%2FfilterQuery=category:Pearson-UK:Category%2FExam-materials

Transition work:

Please note explainer videos are available at the top of the document and answers can be accessed at the bottom. The suggested questions are the minimum amount that you should be completing. You may want to complete more of the questions on some of these topics to ensure you are fluent in these techniques

1) ***Algebraic fractions***

Simplifying - Q4

https://corbettmaths.com/wp-content/uploads/2019/12/Simplifying-Algebraic-Fractions.pdf

Adding- Q3, 4, 5, 6

https://corbettmaths.com/wp-content/uploads/2013/02/adding-algebraic-fractions-pdf.pdf

Multiplying -Q3

https://corbettmaths.com/wp-content/uploads/2013/02/multiplying-algebraic-fractions-pdf.pdf

Dividing- Q1 and 2

https://corbettmaths.com/wp-content/uploads/2013/02/dividing-algebraic-fractions-pdf1.pdf

2) ***Tangents and circles- All questions***

https://corbettmaths.com/wp-content/uploads/2013/02/equation-of-tangent-pdf1.pdf

3) *Surds- Applied section only*

https://corbettmaths.com/wp-content/uploads/2013/02/equation-of-tangent-pdf1.pdf

4) *Further Trigonometry*

Sine Rule- Applied section only

https://corbettmaths.com/wp-content/uploads/2018/09/Sine-Rule-pdf.pdf

Cosine Rule- Applied section only

https://corbettmaths.com/wp-content/uploads/2019/07/Cosine-Rule-pdf.pdf

Area of a triangle- Applied section only

https://corbettmaths.com/wp-content/uploads/2017/12/trig-area-of-a-triangle-pdf1.pdf

Graphs of trigonometric functions- Applied section only

https://corbettmaths.com/wp-content/uploads/2019/02/Trigonometric-Graphs.pdf

Mrs Hathaway is Head of A Level Maths. Please email her on m.hathaway@stbcc.org with any queries.