

# FURTHER MATHEMATICS

KS5 (Edexcel A Level Further Mathematics)

YRI3



## Curriculum Purpose

Students study Pearson Edexcel Level 3 Advanced GCE in Further Mathematics (9FM0) and they have nine periods of Further Mathematics a fortnight. The qualification requires students to demonstrate skills and knowledge outlined in the following overarching themes: mathematical argument, language and proof, mathematical problem solving and mathematical modelling and expands the depth and breadth of mathematics with aspects of student choice in their areas of learning depending on their future aspirations.

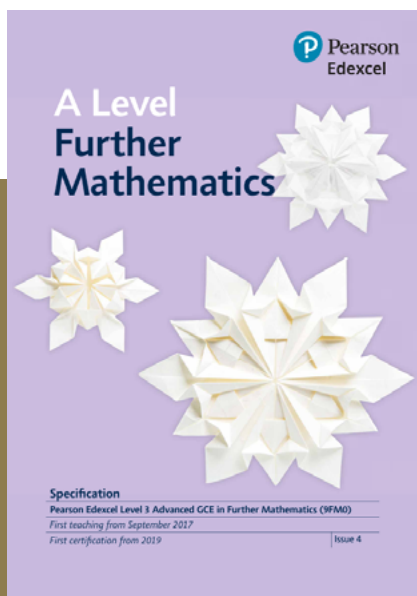
## Curriculum Topics

### CORE PUREY2 - COMPULSORY

- Complex Numbers
- Series
- Methods in Calculus
- Volumes of Revolutions
- Polar Coordinates
- Hyperbolic Functions
- Methods in Differential Equations
- Modelling with Differential Equations

### STUDENT OPTIONS INCLUDE

- Further Pure Mathematics
- Further Statistics
- Further Mechanics
- Decision Mathematics



## Specification link

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



### When and how assessment of learning will happen

Practice examinations

### The final exams/ assessment:

Mock examinations  
External examinations

### Independent Learning Expectations

At least five hours a week of independent learning

### Useful Information

- Bespoke Google classroom
- <https://www.physicsandmathstutor.com/>

