

# SUMMER LEARNING 2022

## FURTHER MATHS AS LEVEL

1. [VIEW OUR COURSES HERE](#)

2. [EXAM BOARD SPECIFICATION](#)

3. SUGGESTED READING LIST, WEBSITES, PODCASTS AND FILMS:

50% of the course is pure mathematics and you will study some new topics including complex numbers, matrices and polar coordinates. To prepare for this you need to have strong algebraic skills and be able to rearrange formulae and solve equations.

In the remaining 50% you study mechanics and discrete mathematics. In mechanics you will study topics such as circular motion and look at the mechanics of strings and springs. In discrete mathematics, you will study graph theory and look at solving practical problems such as finding the most efficient route for delivering post around a network of streets.

<https://www.youtube.com/watch?v=i2dl2S7MeqU>

Problem solving is also important on A level mathematics courses so trying problems on sites like nrich could help you.

<https://nrich.maths.org/secondary>



Notre Dame  
CATHOLIC SIXTH FORM COLLEGE

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## 4. A SUMMER LEARNING ACTIVITY/ TASK

Further Maths Summer Activity for Year 11 Students

Further Maths Complex Numbers Activity