



Introduction to Post-16 Studies – A Level Maths

Maths is one of the biggest facilitating subjects, for progression to many courses at university it is important to have strong mathematics skills and for most science, technology, engineering and mathematics (STEM) degree courses A Level Mathematics is a requirement.

The following challenges will help you develop some of the initial skills and knowledge needed for this course.



Watch this documentary

[Contagion: The BBC Four Pandemic](#)

Watch this documentary with Hannah Fry to find out how maths can help us prepare for a deadly pandemic.



Listen to this radio programme

[Taking Maths Further podcast](#)

There are 20 different podcasts to listen to, each dealing with a different aspect of mathematics.



Complete this online course

[Language, Notation and Formulas](#)

Communication is as vital in mathematics as in any language. This course will help you to express yourself clearly when writing and speaking about mathematics.



Investigation

16 small squares are arranged in a 4 x 4 grid, each have a side length of 1 unit. How many pairs of vertices are there whose distance apart is an integer number of units?



Read this article

[R0 and herd immunity](#)

Two things many of us will have heard about over the last few weeks are the concept of herd immunity and a number called R_0 (which people say as "R nought").



How to?

[Essential Casio Calculator Skills](#)

Enrol for free to ensure you know how to use your calculator effectively.



Useful links

[Specification](#)

[Hegarty Maths - Getting ready for A Level Maths](#)

<https://www.mathscareers.org.uk/>

<http://www.futuremorph.org/>

<https://plus.maths.org/content/>

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