

Virtual Maths Week at Univ

Skills and Knowledge Inventory

Students will participate in Maths Week having studied different curricula in different educational systems, and will, therefore, have covered different maths topics to different levels. In preparation for Maths Week, the people who will be teaching you would like to get a sense of which topics will be simple revision and which might be new to you: this is solely to inform their teaching and enable support to be tailored appropriately – it is not an assessment and no one will be judging you on it.

Not all of the topics listed here will be covered for students in every subject, as the maths needed by medics, for example, is not necessarily the same as that required by physicists. Similarly, this is not an exhaustive list of topics to be covered in Maths Week: it is selected from the teachers' experience of which topics they have previously found significant variation between students on arrival. Do not worry, therefore, if any topic listed below is unfamiliar – it may be that you don't need it, anyway!

For each topic listed, please try to give an honest indication of how familiar you are with it; you may additionally use the final column to indicate areas in which the teaching you have received in the last few months has been disrupted. Please return this form to the Admissions Manager by Tuesday 1 September.

Name: Subject:

	I know this topic thoroughly	I know this topic quite well	I know this topic, but would like to feel more secure	I have not come across this topic before	Teaching of this topic was interrupted by the pandemic.*
First order differential equations					
Second order differential equations					
Complex Numbers					
Complex numbers, exponential form					
matrices					
Eigenvalues and eigenvectors for matrices					
Vector equation of a straight line					
Scalar product					
Vector equation of a plane					
Vector product					
Hyperbolic functions					