

Free resources that will support Geography

Transition course for students who will be in Year 12 in September 2020

Year 11 students can apply for a free Integral account to access mathematics resources to support transition to further study.

If they are predicted a good pass or better in GCSE Mathematics, and are intending to take A levels or other level 3 courses with mathematical content (e.g. Psychology, Geography, Biology), our **Core Maths Skills** course will help you to consolidate GCSE Mathematics techniques in contexts that support effective transition to your new studies.

https://2017.integralmaths.org/management/self_reg_students.php

Core Maths platform for sixth form students

If your school is registered with the AMSP (this is free) then you will receive access to lots of free resources.

You will receive a free teacher account to Integral[®]. This will enable you to access extensive resources to support your teaching and learning. This includes AS/A level Maths/Further Maths Statistics content and our Core Maths platform. All of these contain teacher and student resources and many sections will also support the teaching of A level Geography. On the Core Maths platform you can set up individual student logins and there are many sections that students can work on independently.

Relevant Core Maths Course Content:

The content of Core Maths qualifications varies depending on which exam board option you follow. Below you will see which sections of the Core Maths platform contain resources and activities that are relevant to Geography.

AQA 2A (statistics option)

- Analysing critically
- Percentages
- Representing and interpreting data
- Sampling
- Types of variable, data and levels of measurement

Edexcel

- Moving averages and time series
- Recognising and interpreting data
- Sampling
- Spearman's rank
- Modelling data (including use of exponential functions)

OCR - Introduction to Quantitative Reasoning (IQR)

- Introduction to collecting data
- Representing and interpreting data

OCR - Critical Maths (CM)

- Correlation and causation
- Statistical experiments and sampling
- Working with percentages

OCR - Statistical Problem Solving (SPS)

- Spearman's rank
- Sampling and experimental design
- Chi Squared hypothesis test
- Measures of location and spread

Note:

- IQR & CM constitutes OCR's 'Core Maths A' award.
- IQR & SPS constitutes OCR's 'Core Maths B' award.

Large data set resources

In A level maths it is a requirement for students to work with a large data set. Many of these data sets would be relevant to Geography too (world bank data set, municipal waste, generation and treatment, Japan census etc). By following the link below you can find links to the large data sets themselves, workbooks and short videos that illustrate techniques for using excel and other free statistical tools to analyse the data.

<https://mei.org.uk/large-data-sets>