



# Example Advanced Higher Geography Itinerary

## Soils and River

**Aim:** To prepare students for the planning stage of their geography study by introducing them to the research and sampling techniques that they can choose to use.

Session	Timings	Content
Arrival	9.00 – 9.15	Arrive at the Magnus house and meet the Education Team.
Soils Investigation	9.15 – 12.15	After constructing their own hypotheses, students will work together to carry out a slop analysis, investigating how soil characteristics change up a slope. Primary abiotic data will be collected on soil depth, texture, pH and moisture content, as well as vegetation cover and gradient. On return to the Magnus House, students will test the pH of their soil samples and process them in preparation for collecting soil moisture data. Data will be collated into a group spreadsheet.
Lunch	12.15 – 12.45	Weather permitting, we can have lunch around a fire.
Data Analysis	12.45 – 13.30	Using data collected throughout the day, students will be guided through a selection of data presentation, interpretation and analysis techniques. This could include drawing a profile of the slope or completing a statistical test for correlations in the data.
River Techniques	13.30 – 14.30	Visiting the nearby Breakachy Burn, students will trial techniques we can use to sample cross channel variables including river depth, width, wetted perimeter, flow rate and bedload characteristics.
Finish	14.30 – 14.45	Conclude session and depart from Aigas.

### Skills, Knowledge and Understanding Covered

- Developing and using a wide range of research and mapping skills and techniques in complex geographical contexts.
- Developing and using a wide range of numerical and graphical skills and techniques in geographical contexts.
- Developing and using a wide range of statistical techniques.
- Developing and using knowledge and understanding of geographical terminology, ideas and systems using complex information to explain and analyse a wide range of geographical phenomena.

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- Developing and applying skills, knowledge and understanding to analyse of a wide range of complex geographical evidence.

**In order to complete Geographical Study, candidates will:**

- ☒ justify the choice of a complex geographical topic to research
- ☒ plan and carry out detailed research, which could include fieldwork
- ☒ evaluate the research techniques and the reliability of data gathered
  - ☒ demonstrate a detailed knowledge and understanding of the topic being studied from wider reading
  - ☒ use a wide range of appropriate techniques to process the gathered information
  - ☒ analyse all the information that has been gathered and processed to identify and explain relationships
  - ☒ reach reasoned conclusions supported by a wide range of evidence