



# Secondary Education Programmes

Our KS3-KS5 programmes have been created purposefully for the new secondary curriculum that is being taught at GCSE and A-level.

These programmes allow students to investigate a scientific enquiry using a comprehensive scientific framework that reflects the new fieldwork assessment component. The students will work together to formulate hypotheses, plan and justify methods, use fieldwork techniques to collect data, analyse data and evaluate their study.

The programmes allow the students to:

- develop their practical skills
- prepare for the fieldwork exam
- complete science practical endorsements
- conduct an independent investigation



## Physical Geography (River studies)

### Cotton Dell nature reserve, Oakamoor

Investigate the river's changing channel characteristics along its course. Students will devise a question and hypothesis to test Bradshaw's Model. They will then collect quantitative and qualitative data on channel width, depth, cross sectional area, wetted perimeter, and velocity. They will complete their fieldwork at three study sites from upstream to downstream.

## Human Geography (Rebranding)

### The Wolseley Centre, near Rugeley

Investigate the changes in land use of The Wolseley Centre, while considering the economic and environmental impacts associated with land use change. Hands-on activities include categorising land use changes, Venn Diagram investigations, environmental quality survey, and bi-polar analysis.

## Biology (Succession)

### Brankley Pastures nature reserve, Barton-under-Needwood

Investigate the distribution and abundance of vegetation within a named ecosystem and the process of succession. Activities include collecting quantitative and qualitative data on the heights of the vegetation, abundance of species and species richness within each quadrat along a systematic transect.

