

Epping Forest Field Centre

Key Stage 4 Science Courses

Our courses are designed to meet the requirements of AQA, OCR & Edexcel GCSE specifications.

The course can be tailored to cover parts of How Science Works including:

- Practical and enquiry skills.
- Collection of data from primary sources.
- How to work accurately and safely when collecting data.
- Evaluation of methods of data collection.
- Use of qualitative and quantitative approaches.
- Analysis of data.
- Data Presentation.

Choose from the range of courses listed.

- Led by friendly and well trained tutors
- Knowledge and understanding of the natural environment
- Fieldwork skills and techniques
- Comprehensive Health and Safety procedures
- Free staff places

For more information or to make a booking contact
Epping Forest Field Centre on 020 8502 8500.

Courses cost £16 per person (March to November) and £14 per person (December to February), subject to a minimum fee of £260 per taught group. Course content is for a day visit, typically arriving by 9.30am, leave 3.30pm. Tailor made courses, including half day activities are available, and changes to timings can be discussed.

The Centre's purpose built facilities offer superb opportunities for field study in the heart of Epping Forest.

All of our courses are led by experienced tutors selected for their knowledge and expertise as well as their relaxed and friendly manner.

Epping Forest Field Centre

Tel: 020 8502 8500

Address: Paul's Nursery Road, High Beach,
Loughton, Essex, IG10 4AF

Fax: 020 8502 8502

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Website: www.field-studies-council.org/eppingforest

Registered Charity Number: 313364

Managed by FSC for and on behalf of the City of London Corporation, Conservators of Epping Forest.

FSC

BRINGING
ENVIRONMENTAL
UNDERSTANDING TO ALL

Freshwater Ecology

Students will study the invertebrates in a pond and consider their adaptations, relationships and requirements, and how this relates to the distribution of invertebrates. Fieldwork includes designing their own fieldwork technique as a group and collecting data using standard dip netting. Students will also have an opportunity to evaluate their methodology and create pyramids of numbers and biomass using the students own data.

Bugs on Bushes Available April - October

A study of the invertebrates found in stinging nettles and bracken to consider their suitability as microhabitats and how this relates to the invertebrates distribution. Fieldwork includes: Considering adaptations and habitat requirements, designing their own fieldwork techniques as a group, collecting data using sweep nets and pooters, evaluating their methodology and a follow up with pyramids of numbers and biomass using the students own data

Holly Leaf Miners

Students will be given the opportunity to investigate the Holly Leaf Miner lifecycle and consider the associated food webs and relationships. Fieldwork includes designing their own fieldwork technique as a group and collecting Holly leaf data. Students will also evaluate their methodology and create pyramids of numbers and biomass using their own data.

Visitor Impact (Biology / Geography combined programme)

Students examine visitor management issues, investigating why visitors use honeypot sites and what impact this has on the local environment. Students compare a honeypot site with a site recovering from intensive use. This addresses questions surrounding management of the sites for recreation and conservation. Fieldwork includes vegetation sampling using quadrats, measuring soil compaction to investigate the impact of trampling, collecting data on car and visitor numbers, studying public pressure through an environmental index and assessing management practices.

Scientific Skills

The day is designed to allow students to gain practical experience in biological skills and techniques. Students will undertake small scale fieldwork projects using a range of equipment.

Fieldwork can include:

- Site observations
- Local frequency measurements using quadrats
- Systematic sampling
- Random sampling
- Stratified sampling
- Example habitats: grassland, woodland & freshwater

BTEC Ponds

This course has been specifically designed to complete Key components of Unit 5, particularly the scenario regarding pollution and invertebrates required for the students portfolio. Students will be given the opportunity to study the freshwater invertebrates found in forest ponds with particular focus on Wake Valley Pond. Adaptations will also be considered to explain possible differences in invertebrates found due to pollution. Students will collect quantitative and observational data from the field and use this data to create pyramids of numbers and biomass. It is strongly recommended that the pre and post course activities are completed as they have been designed to support the portfolio development outside of the students visit to the centre.