



[www.ectonhillfsa.org.uk](http://www.ectonhillfsa.org.uk)

**ONE-DAY COURSES for  
STUDENTS 14-19 in  
PHYSICAL SCIENCES and  
EARTH SCIENCE.**

**ACTIVITY DAYS FOR PRIMARY SCHOOLS.**

**VISITS FOR GENERAL AND SPECIAL  
INTEREST GROUPS.**



## **Courses based on the historic Ecton copper mines in the south-west Peak District National Park.**

Develop your students' scientific ideas in the field...

- Chemistry of natural resources, mining and minerals
- Geological structures in 3-D
- Underground visit into an early 19<sup>th</sup> Century part of the mine

...and much more, as well as providing an exciting, stimulating and motivating experience.

### **Chemistry courses for A Level and KS4**

**AL courses** cover aspects common to all specifications: simple chemical compounds in the environment, reactions of common ions, balanced equations, and the characteristic properties of some important groups in the Periodic Table, especially transition elements.

**KS4 courses** include extraction of metals from minerals collected, by displacement from solution and carbon reduction.

### **Geology courses for A Level and KS4**

The mine provides an unusual field experience, including geology in 3-D in the mine adit. Mineralisation, stratigraphy, structural and engineering geology are just some of the topics that can be covered.

### **Courses/visits for primary schools**

These include a hill walk with an emphasis on specific aspects of the history and geology of the Ecton Mine, an underground visit, and the opportunity to undertake simple science/geology based practical activities.

### **General and Special interest groups**

Half or full day visits can be arranged for groups with an interest in Industrial Archaeology, walking groups, Geological Societies, U3A groups; all to include a surface tour and an underground visit. Adults or adults with children are welcome.

## Course Organisation

Visits are booked by mutual arrangement on weekdays and weekends during the year.

- Full day courses mostly run from 10 am to 4 pm; packed lunches should be brought (no shops for miles!)
- Staffed by two *volunteer* EHfSA tutors, who are experienced teachers (mostly retired and DBS cleared).
- The cost for a full day course is £10 per participant and includes tuition and any materials. (£5 per pupil for primary schools)
- One free staff place per 10 students.
- Half day courses and visits (up to 4 hours) are normally £5 per pupil for school groups and £10 per person for adult groups.
- Minimum charge for all visits assumes a group size of 10 persons.

## Bookings

All bookings are made via our **on-line booking system**.

For full details, contact details and on-line booking, please visit our website at

[www.ectonhillfsa.org.uk](http://www.ectonhillfsa.org.uk)



Panning for 'gold'



A Primary pupil looking scientific!



U3A members re-living their school days with some colourful chemistry!



The outdoor classroom, with a GCSE group being introduced to the geology