



5. Other Educational Opportunities in the North Pennines

North Pennines Geology and Landscape

OTHER EDUCATIONAL OPPORTUNITIES IN THE NORTH PENNINES

1. Moorhouse - Upper Teesdale National Nature Reserve

Reserve base grid reference: NY 838298
Ordnance Survey Explorer OL31

The reserve, which is managed by Natural England, comprises of an almost complete range of upland habitats typical of the North Pennines. Cow Green/Widdybank Fell nature trail, High Force and Low Force are all within the National Nature Reserve. Natural England does not have any indoor facilities but can arrange for volunteer Green Guides to accompany groups on the National Nature Reserve. These guides have undertaken training about the reserve (habitats, wildlife and land management) and in first aid and group management. To discuss this and to book a guide please ring the reserve base on 01833 622374. Please note that at least 2 weeks notice is required.

2. Killhope North of England Lead mining Museum

Grid Ref: NY 824 431
Ordnance Survey Explorer OL31



In the heart of the North Pennines, Killhope, the North of England Lead Mining Museum offers superb hands-on learning opportunities for all key stages. A museum visit can focus on history, geography, tourism, rocks and soils or forces.

Alternatively the museum will tailor a visit to your needs and curriculum requirements. No worksheets are allowed- this is learning by experience. All visits are led by museum staff. Supporting loan boxes available. Member, University of the First Age.

Visit Plan:

10.30 am

Arrival and leave bags in education/lunch room

10.40 am

Start of tour and activities – minerals, mineshop, washing floor

12.30 pm

Lunch break

1.00 pm

Mine tour, waterwheels

2.30 pm

Depart

All tours are led by museum staff, and are tailored to your individual requirements.

For information:

Killhope, the North of England Lead Mining Museum
Cowshill
Weardale
Co Durham
DL13 1AR

Tel: 01388 537505

e-mail: Killhope@durham.gov.uk

web: www.killhope.com

3. Harehope Quarry Project Ltd.

Grid Ref: NY 038365

Ordnance Survey Explorer OL31

The Harehope Quarry Project Ltd is located just to the east of Frosterley in Weardale. The project offers environmental education, field studies and education for sustainable development on a day-visit basis. The educational days offered are based around 4 themes: 'Living things and biodiversity', 'Rocks, fossils and landscapes', 'History and heritage' and 'Sustainable lifestyles'. The days may be based within Harehope Quarry



or utilise other sites in the North Pennines. Educational days have been designed to provide for the 4 – 18 age range. The visit plans below give a brief example of how days can be planned and organised:

Example visit plan 1 - Key Stage 2

10.00am

Arrival and introduction to the site and the day's activities

10.15am

Geological timeline activity

11.15am

Rock and fossil hunt

12 noon

Pebble puzzle activity

12.30pm

Lunch

1.00pm

Either - science and craft activities - plaster of Paris fossils, edible crinoids, coral and brachiopod puppets, making cyclothems and creating fossil environments.

Or - using the georium (digging for fossils in different geological environments)

3.00pm

Depart

Example visit plan 2 - GCSE geography

9.30am

Arrival and introduction to the site and the day's activities

9.45am

An introduction to limestone quarrying

10.00am

A tour of Harehope and Broadwood quarries to look at the geology and limestone quarrying in Weardale.

11.30am

An environmental impact assessment of quarrying at Broadwood (with a break for lunch)

2.00pm

Harehope Quarry – an example of reclamation

3.00pm

Residents' survey in Frosterley

4.00pm*

Work up primary and secondary data collected and prepare presentations for a role-play based on a public inquiry

6.30pm

Public inquiry presentation

8.00pm

Depart

**This element can be carried out as follow-up work in school if required*

Example visit plan 3 - AS/A2 biology

9.30am

Arrival and introduction to the site and the day's activities

9.45am

Introduction to energy flow and adaptation

10.30am

Fieldwork investigation into energy flow in a freshwater environment

12.30pm

Lunch

1.00pm

Data analysis, presentation and summary of fieldwork results

2.30pm

Field visit to look at the management of a nature reserve

4.00pm

Depart

All fieldwork days are led by Harehope Quarry Project staff, and can be tailored to your individual requirements.

For information:

Harehope Quarry Project Ltd

Harehope Quarry

Frosterley

Co. Durham

DL13 2SG

Tel: 01388 528599

Email: info@harehopequarry.org.uk

Web: www.harehopequarry.org.uk

