

Hydrology and Fluvial Geomorphology

Thank you for booking. Please check all details on your booking confirmation form and the Risk Benefit Analyses.

Programme aims

To study an upland river system in detail and to relate changes in the river velocity, discharge and channel bed to the different features in the valley, while engaging with the special qualities of the Peak District National Park.

Learning Outcomes

An experience of:

- A variety of hydrological techniques, such as using an Impellor to measure velocity. Constructing a river profile and analyzing bed load shape.
- Collecting primary data for (statistical) analysis in the classroom.
- Working with other people in a group situation.

An understanding that:

- There are a number of channel variables, which change with increasing distance from the source. (Bradshaw model).
- Channel variables are related to catchment area and head of water
- That the geomorphology changes with increasing distance from source.
- That channel variables are interrelated.
- That upland catchment conservation is an integral part of flood management

Curriculum Links

The Hydrology and Fluvial Geomorphology module is covered in most of the GCSE teaching requirements of all the Examination boards.

The fieldwork is pertinent to all the synoptic papers on field work, being a great example of practical methodology.

Location and Coach instructions

Meeting place is usually [Edale Car Park](#) (SK125854) [Crowden Car Park](#) (SK072993) or [Upper Burbage Bridge](#) (SK261830), where coach parking is available.

Please note that access to Edale by coach is only possible from the western end of the valley over Mam Nick.

Access to the field sites is by special permission of the landowners.

We are holders of the **Learning Outside the Classroom Quality Badge**. Certificate number: R2QB103464

Quality Badge awarded by



Safety All our activities and sites are risk assessed. Risk assessments and health and safety information can be downloaded at the above website.

Our staff to student ratios, vary depending on age, and ability of the group and activities booked. All our leaders are first aid qualified.

Clothing Please ensure that children are wearing warm outdoor clothing. Waterproof jacket, stout shoes with adequate grip are advised for all visits but this one in particular. The area is very exposed and 450m above sea level.

Behaviour Teachers are responsible for good behaviour, discipline & lunch time supervision.

Medical Information Please let us know about any allergies, medical conditions or special needs.

We strive to make our visits accessible to all. Many of our sites are accessible to people with limited mobility, but do discuss your particular needs with us

Programme

Start time and meeting place: Please refer to your booking form.

- Meet at meeting place for chosen time and location (see booking form)
- Welcome and introduction to leaders and the Peak District National Park
- Objectives and outcomes of the day
- Staying safe

Activities

- Measuring the stream characteristics and physical parameters at 3 stream sites in the given location.
- Walking between the sites (2 -3 miles)

Equipment and props used

- Impellers
- Measuring tapes
- Clinometers
- Rulers
- Stopwatches

Lunch

- Lunch will be taken at a suitable location during the day.
- Edale and Crowden Car Park have public toilets and there is a disabled toilet in Edale visitors centre and Crowden.
- There are no toilets in the Burbage Valley.

APPS there are now available many different Apps which are useful for field work and are being increasingly used by schools and colleges on their trips. [Here are a few suggestions.](#)

before booking.

Payment Please note terms and conditions

Cancellation Please let us know as soon as possible if you have to cancel or if your numbers change significantly. Please read terms and conditions.

Weather We continue activities in all but the very worst weather so please make sure everyone comes prepared to be outside in the prevailing conditions! See [what to wear](#).

Insurance Our education service is covered by £10 million Public Liability Insurance Policy. Please ensure that your school or LEA has appropriate insurance cover.

Prior Learning activities

It is helpful if the students are familiar with the concepts of the Bradshaw model of river flow but not essential. Some knowledge of Hydrological terminology and the Peak District National Park is also helpful.

Follow-up activities

You may also want to look at our [secondary education resources page](#), and in particular the “state of the Park report” which offers a “mine” of useful facts and figures about the Park and for more follow up ideas and information.

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