

## PROVISIONAL PROGRAMME

### Aim

To investigate how the River Chess changes from source to confluence.

### Introduction

- Rivers and their place in the Chilterns landscape.
- River Chess as a long profile and as a sketch map.
- Label field sites on a full map of the River Chess.
- By asking questions consider how the River Chess changes, as it flows downstream.
- Students to carry out risk assessment for fieldwork

### Field Site 1: Chesham Moor

- Draw and annotate field sketches. Discuss river landforms and the effect of management.
- Measure width, depth, wetted perimeter, gradient, and speed of flow using flow meters and floats.
- Measure size and roundness of bedload

### Field Site 2: Sarratt Mill (Please note this site is only accessible by minibus)

- As site 1

### Field Site 3: Scotsbridge Mill (2 sites can be studied at Scotsbridge Mill if transport cannot access Sarratt Mill).

- As site 1 and 2

### Follow up

- Calculate cross-sectional area, discharge and hydraulic radius.
- Identify and explain changes in the variables measured and compare with predictions.
- Discuss how to analyse the data.
- Consider limitations of fieldwork.

### RECOMMENDED DAY LENGTH

9.30 – 17.00

**SAFETY** All activities and sites are risk assessed. Recommended 1 adult per group.

**CLOTHING** Appropriate outdoor clothing and wellies if possible. Indoor footwear.

**TRANSPORT** is required all day for this course.

**TEACHER ROLE** Teachers are responsible for good behaviour & lunchtime supervision.

**RESOURCES** All resources are provided.

**ICT** There is the option of using a digital camera to record techniques.

### ASSESSMENT

Progress assessed by open ended questioning, peer discussions, presentations and use of knowledge and skills in different situations.

### PRIOR LEARNING

Review hydrological patterns and processes.

### FUTURE LEARNING

Produce a well-structured report which draws on evidence to reach conclusions.