

PROVISIONAL PROGRAMME

Introduction

- Rivers and their place in the Chilterns landscape.
- River Chess in long profile and as a sketch map.
- Label four field sites on a full map of the River Chess.
- By asking geographical questions consider how the River Chess changes as it flows downstream.

Field Site 1: Chesham Moor

- Draw and annotate field sketches.
- Option of a digital camera.
- Measure width, depth, wetted perimeter and speed of flow using flow meters and floats.

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

- As site 1 and 2.

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

- As site 1.
- Describe and explain erosion and deposition at a meander and contrast outer and inner bends, speed of flow and water depth.

Review

- Calculate cross-sectional area and discharge.
- Identify and explain changes at different sites, and compare with predictions.
- Consider limitations of fieldwork.

LEARNING OUTCOMES

Most students will

- Have identified and agreed procedures and questions to find out about river profile characteristics.
- Have made hypotheses, collected data to test the hypotheses and used the data to draw conclusions.
- Transformed raw data into a range of suitable graphs, diagrams and sketches.
- Worked safely and reduced their impact on the environment

Some students will not have made as much progress and will

- Made hypotheses and collected relevant data.

Some students will have progressed further and will

- Have considered the reliability of the data collected and suggested other factors that could influence the results.
- Identified and measured other factors which might impact on the river characteristics other than those discussed as a class.

SAFETY All activities and sites are risk assessed. Recommended adult: child ratio of 1:12.

CLOTHING Appropriate outdoor clothing and a complete change of clothes. Indoor footwear and outdoor footwear appropriate for entering the river.

TRANSPORT is required all day for this course.

BEHAVIOUR 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 discussion and explanation of hypotheses and results.

PRIOR LEARNING

Review hydrological patterns and processes.

FUTURE LEARNING

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