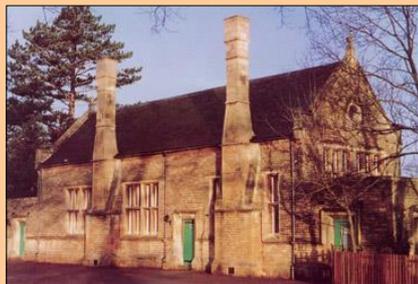


Rivers, flooding and the landscape... Investigating Hydrology at KS3



CEES at Stibbington Centre

If requested a "mix & match" programme of learning activities from different day courses may be selected.

To reduce travel costs it may be possible for 2 classes from the same school to follow 2 different courses on the same day.

At KS1 & 2, CEES Day Course themes at Stibbington Centre, Burwell House, Wisbech Castle and Vine House Farm include:

Science

Exploring the environment
Rocks & soils
Energy & renewables
Habitats & food chains
Plants & minibeasts
Crime Scene Investigation

Geography

Map skills & location
Weather & climate
Exploring a locality
Rivers and water

History

Romans Vikings
Victorians WW1
WW2 Evacuation

Art & design

Eco Art & the environment

English & maths

... outdoors

Contact details for further information

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Day Course Information:

Curriculum focus - Geography

Human & physical geography: Hydrology, influence and change
Geographical skills and fieldwork

Aims

- ✓ To understand, through place-based exemplar, the key processes in hydrology, including the hydrological cycle, river characteristics, landforms and processes
- ✓ To understand how human and physical processes interact to influence and change landscapes
- ✓ To interpret maps and models in the classroom and in the field
- ✓ To use fieldwork to collect, analyse and draw conclusions from geographical data

Programme *When there are two classes the welcome will be common to both. Classes then separate and sessions A and B are interchangeable before and after lunch. The programme may vary depending on the number and needs of pupils, length of visit and weather conditions.*

Welcome

A CEES teacher will welcome your group to the Centre. An introductory presentation will then introduce or recap river and valley features using geographical terminology, to be revisited throughout the day.

Session A

- Observe a simulation model to identify erosion, transportation and deposition, and the associated hazards of flooding
- Investigate how flooding may be caused by differing rates of run-off
- Consider how the impact of flooding can be reduced by Sustainable Urban Drainage schemes (SUDs)
- Visit the River Nene at Yarwell Mill to identify physical and human features associated with the river and flood prevention/mitigation measures

Session B

- Carry out fieldwork beside a small tributary of the River Nene
- Measure and record the speed of flow and depth of the channel
- Complete a landscape sketch and cross section
- Measure the angle of the valley profile using clinometers and ranging poles

Review Prior to departure there will be a chance to reflect on the day

NB *Your bus will be needed to transport the group between Centre, Mill and river (2 miles). Please make this clear to your bus company.*

Risk management

See separate "Guidance notes for safe and effective Day Courses"

Supervision: For this Day Course our recommended adult:student ratio for safety is 1:10 with students in working groups of approx 6.

Weather conditions: CEES teachers are aware of daily weather forecasts and may adjust programmes depending on weather conditions on the day. See separate guidance on outdoor clothing and footwear.

Site conditions: CEES teachers will assess site conditions, including water levels and speed of flow to make appropriate decisions on safety beside and in the stream. Fieldwork will not be carried out where any kind of water pollution is suspected. Students with cuts or abrasions will be given protective gloves before working near water. Students will be instructed to wash hands thoroughly after working with water. No food is consumed while at a study site.

Equipment: Instructions are given on the safe use of all equipment.