



# THE MYSTERY OF THE VALUABLE VICTORIAN CLOCK

KS 2 SCIENCE AND ENGLISH

<p><b>Learning Objectives</b> During this Day Course pupils should learn:</p> <ul style="list-style-type: none"> <li>ü To develop thinking, listening and speaking skills.</li> <li>ü To use investigative skills to collect and record evidence by careful observation and testing.</li> <li>ü To evaluate evidence and draw conclusions.</li> <li>ü To use scientific vocabulary.</li> <li>ü To use a wide range of scientific equipment.</li> <li>ü To work co-operatively as a group.</li> </ul>
<p><b>Pupils will also:</b></p> <ul style="list-style-type: none"> <li>ü Learn safely in a new environment;</li> <li>ü Gain an appreciation of the environment and understand their role in caring for it.</li> </ul>

<p align="center"><b>Day Course Programme</b></p> <p align="center">Where 2 classes are attending the course the introductory session will be common to both. Classes will then separate and sessions A and B will be interchangeable am and pm.</p>
<p><b>Introduction:</b> On arrival a member of CEES staff will welcome your group to the Castle ‘incident room’ and describe the day’s programme and learning objectives. Information will be given on the crime that was committed at Wisbech Castle in 1892 and the prime suspects. Pupils will take on the role of police investigators working on this cold case from the past and will devise questions that will lead them to solve the crime.</p>
<p><b>Session A:</b> Time travel will enable the investigators to visit the scene of crime as well as other areas of the Castle building and grounds where witnesses saw the suspects on the day of the crime. Additional evidence will be collected from key sites. There will also be the opportunity to question members of the household in 1892.</p>
<p><b>Session B:</b> The group will enter the forensic laboratory and use a variety of scientific equipment and testing techniques to analyse the evidence found at the crime scene.</p>
<p><b>Plenary:</b> Finally pupils will work in their groups to synthesise all their evidence and begin to draw conclusions. “Forensic evidence from the police” will be introduced to help the investigating teams. To complete the day each group of pupils will be invited to present their ideas and identify the guilty suspect. The solution will then be revealed and the group will reflect on their day and consider how well the learning objectives have been met.</p>
<p><b>Note:</b> The actual programme may vary depending on number and needs of pupils, length of visit and weather conditions.</p>

<p><b>Adult : Pupil ratios</b> For this course CEES’ recommended ratio for safety is <b>1 : 8</b> For most classes, 4 pre-arranged working groups, each with an adult, is ideal. Additional adults may be needed with classes where individual pupils need 1 : 1 support</p>
<p><b>Other information</b> Please see overleaf for guidance notes, including information on clothing and equipment.  When preparing for the day it would be helpful for teachers to give their pupils an opportunity to practice interviewing and questioning techniques.</p>

<b>Relevant extracts from CEES risk assessments</b>	
See also guidance notes relating to health and safety overleaf	
<b>Hazard</b>	<b>Control measures</b>
Extreme weather conditions	<ul style="list-style-type: none"> <li>• CEES staff are aware of daily weather forecast.</li> <li>• Alternative venues or activities are substituted if weather conditions are particularly unfavourable.</li> <li>• In extreme cases, where guidance notes on clothing (see overleaf) have not been complied with, pupils may be excluded.</li> </ul>
Uneven ground, low branches on trees, steep slopes	<ul style="list-style-type: none"> <li>• Pupils and adults are made aware of expected standards of behaviour and, for example pupils are instructed to walk, not run, to look ahead, and to stay close to their supervisory adult</li> </ul>
Unfamiliar surroundings	<ul style="list-style-type: none"> <li>• Adults supervise directly, for example, walking beside the group and regularly checking that the entire group is present.</li> </ul>
Handling natural materials including soils.	<ul style="list-style-type: none"> <li>• Pupils are warned about known dangers regarding sharp, stinging and poisonous plants.</li> <li>• Soil samples are taken only from clean sites.</li> <li>• Protective gloves or plasters worn by pupils with open cuts or skin problems.</li> <li>• Pupils are instructed to wash hands thoroughly after handling natural materials and before eating.</li> </ul>
Handling scientific equipment and chemicals	<ul style="list-style-type: none"> <li>• Pupils are given clear instructions on the safe handling of equipment and chemicals.</li> <li>• Eyewash is readily available.</li> <li>• Pupils are instructed to wash hands thoroughly after handling and before eating.</li> </ul>

For further information contact CEES on 01780 782386 or [cees.stibbington@cambridgeshire.gov.uk](mailto:cees.stibbington@cambridgeshire.gov.uk)