



EXPLORING MATERIALS

KS 1 SCIENCE

<p>Learning Objectives During this Day Course pupils should learn:</p> <ul style="list-style-type: none"> ü That there are different kinds of materials which occur naturally in the environment. ü To observe and identify some materials in the environment. ü To make predictions about materials and how they might change when heated. ü To sort and group rocks and materials by observable characteristics. ü Recognise hazards and risks when working with materials and with fire.
<p>Pupils will also:</p> <ul style="list-style-type: none"> ü Learn safely in a new environment; ü Gain an appreciation of the environment and understand their role in caring for it.

<p>Adult : Pupil ratios For this course CEES' recommended ratio for safety is 1 : 5</p> <p>Additional adults may be needed with classes where individual pupils need 1 : 1 support</p>
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<p>Other information For the heating of materials on the bonfire, it is most effective if each class chose a selection of materials to heat and predict the results prior to the visit</p> <p>The materials can be brought on the day in a tin buscuit box and the box and heated materials can be taken back to school afterwards.</p>
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<p align="center">Day Course Programme</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>Introduction: On arrival a member of CEES staff will welcome your group to the Centre and describe the day's programme and the learning objectives. A breakfast table will introduce different materials.</p>
<p>Session A: This session is based outside in Wisbech Castle's extensive grounds. Pupils will undertake a variety of activities related to materials. In groups, pupils will follow a materials scavenger hunt, exploring natural and unnatural materials. They will create and then exhibit sculptures, using natural materials. They will look for natural rocks in the local environment including the church and churchyard. The highlight of the session will be the open fire where pupils will be able to safely observe a variety of materials being burnt, and notice how they change when heated (see note in bottom left corner).</p>
<p>Session B: This will be a workshop session in the Education Centre with a variety of activities related to exploring materials, including: sorting and grouping rocks and minerals by observable characteristics; close observation of the characteristics of selected materials; and identification of materials by touch. The session will also include a materials trail in the grounds in which pupils will locate and identify selected materials.</p>
<p>Plenary: The group will reflect on their day and consider how well the learning objectives have been met.</p>
<p>Note: The actual programme may vary depending on number and needs of pupils, length of visit and weather conditions.</p>

Relevant extracts from CEES risk assessments	
See also guidance notes relating to health and safety overleaf	
Hazard	Control measures
Severe weather	<ul style="list-style-type: none"> • CEES staff are aware of daily forecast. • Alternative venues or activities are substituted if weather conditions are particularly unfavourable. • In extreme cases, where guidance notes on clothing (see overleaf) have not been complied with pupils may be excluded from activities.
Uneven ground, low branches on trees, steep slopes	<ul style="list-style-type: none"> • 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.
Unfamiliar surroundings	<ul style="list-style-type: none"> • Adults supervise directly, for example, walking beside the group and regularly checking that the entire group is present.
Handling natural materials	<ul style="list-style-type: none"> • Pupils are warned about known dangers regarding sharp, stinging and poisonous plants. • Pupils are instructed to wash hands thoroughly after handling natural materials and before eating.
Fire	<ul style="list-style-type: none"> • Fires to be lit and tended by an adult only. • Pupils are supervised at all times near a lit fire. • Pupils are instructed to stay a safe distance away from the fire.