



EXPLORING MATERIALS

KS 1 SCIENCE (QCA 1C and 2D)

<p>Learning Objectives During this Day Course pupils should learn:</p> <ul style="list-style-type: none"> ü That some materials occur naturally and some do not. ü To observe and identify different kinds of materials in the environment using the senses. ü To sort and group rocks and materials by observable characteristics. ü To recognise hazards and risks when working with materials and with fire. ü To make predictions about materials and how they might change when heated.
<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 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, introducing the theme of materials and the use of the senses.</p>
<p>Session A: This session is based on a walk through the built environment of Stibbington village, looking at houses and roads, church and graveyard, fields and crops. In groups pupils will follow a scavenger hunt, exploring naturally occurring materials, including building materials, wood and plant materials, soils and rock. The session will conclude with the creation of sculptures using natural materials and an exhibition of pupils' environmental art.</p>
<p>Session B: This will be a workshop session 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 rocks and identification of materials by touch. The session may also include a materials trail in the Centre grounds in which pupils will locate and identify selected materials in the environment. 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.</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 separate guidance notes on safe and effective day courses	
Hazard	Control measures
Extreme weather conditions	<ul style="list-style-type: none"> • CEES staff are aware of daily weather forecast. • Alternative venues or activities are substituted if weather conditions are particularly unfavourable. • In extreme cases, where guidance notes on clothing have not been complied with, pupils may be excluded from activities.
Soil, rocks, plants and animals brought into or kept in classroom	<ul style="list-style-type: none"> • Soil samples are taken only from known clean sites. • Pupils with cuts, abrasions or skin allergies are given protective gloves • Instruction is given in the safe handling and observation of animals. • Activities are closely supervised by adults. • Pupils are instructed to wash hands thoroughly after the activity and before eating.
Village roads	<ul style="list-style-type: none"> • The CEES leader walks ahead of pupils with one adult at the rear and other adults walking with their group. • When walking and working in small groups, pupils are instructed to stay close to their supervisory adult. • Pupils are instructed to walk in single file or not more than two abreast and to walk on a footpath if possible, otherwise on the safer side of road, normally the right to face oncoming traffic.
Fire	<ul style="list-style-type: none"> • A small fire is lit and tended by CEES staff only. • Pupils are supervised closely at all times near a lit fire. • Pupils are given instructions in expected behaviour near fire. • Pupils remain at a safe distance from the fire.
Unfamiliar surroundings	<ul style="list-style-type: none"> • Adults supervise directly, for example, walking beside the group and regularly checking that entire group is present. • Pupils are made aware of safe standards of behaviour

<p>Adult : Pupil ratios</p> <p>For this course CEES' recommended ratio for safety is 1 : 6</p> <p>For most classes, 6 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>Other information</p> <p>Please see separate guidance notes on safe and effective day courses, including information on clothing and equipment.</p>