

**Video question script: Urban fieldwork – the stories from natural materials, colours, lines and shapes**

Question/Activity	Likely response	Rationale
In teaching about the Earth we use outdoor activities to explore Earth materials. This example explores any <u>natural</u> Earth materials used to build your school through the Earthlearningidea called 'Urban fieldwork'		
Ask the class first to identify any natural Earth materials used in building the school or in the school grounds. These may include the materials identified in the 'Rock around your school' activity, in Table 1 below. Other natural materials may include: <ul style="list-style-type: none"> <li>• stone steps</li> <li>• gravel path</li> <li>• flagstones in path</li> <li>• crushed stone aggregate in the car park</li> <li>• stone blocks used for ornamentation</li> <li>• materials used in memorials</li> <li>• flooring or stairs within the school</li> </ul>		Preparing pupils for the outdoor activity
Then ask the class, probably in groups, to find out and report back on what they can say about the natural materials by using the 'Urban fieldwork' information and recording sheets focussed on the colour of the materials and any lines and shapes they contain	Pupils should be able to interpret the features of the materials in terms of their colours, lines and shapes	The information sheets help pupils to identify patterns in the materials studied; where the evidence is not clear, cognitive conflict is involved
Discuss the class findings in a reporting back session. Point out that exactly the same evidence is used to interpret rocks in the field in such areas as cliffs, quarries and cuttings.		This illustrates how the activity can be bridged to the 'real world' of natural exposures

Table 1: From 'Rock around your school' - materials used in the buildings and their surroundings (natural and manufactured) – natural material found in the ground highlighted

What is the name of the type of material?	Where did you see it being used?	Is it natural or manufactured?	If manufactured, did the original material come from the ground?
<i>e.g. Glass</i>	<i>Classroom windows</i>	<i>Manufactured</i>	Yes
Stone blocks	Wall	Natural	Yes
Bricks	Wall	Manufactured	Yes
Cement blocks	Wall	Manufactured	Yes
Roofing slates	Roof	Natural	Yes
Roofing tiles	Roof	Manufactured	Yes
Stone window surrounds or wall corners	Window surrounds, wall corners	Natural	Yes
Wood/timber frames	Window frames	Natural	Grew from the ground
Plastic window frames	Window	Manufactured	Yes
Plastic gutter	Gutter	Manufactured	Yes
Iron gutter	Gutter	Manufactured	Yes
Iron railings	Railings	Manufactured	Yes
Galvanised lamp post	Lamp post	Manufactured	Yes
Asphalt/bitumen	Car park	Manufactured	Yes
Concrete kerbstone	Pavement	Manufactured	Yes
Concrete flagstone	Pavement	Manufactured	Yes
Paint	Door	Manufactured	Yes
Lightning conductor	From roof to ground	Manufactured	Yes