

© UKRIGS Education Project: Earth Science On-Site

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1. The Rock Cycles at Dryhill Nature Reserve

Under the following headings write your evidence for each of the sections of the Rock Cycles, starting with the Cretaceous part of the cycle through to the present day.

FIRST CYCLE: weathering and erosion.

What can you say about the weathering and erosion that led to the formation of the beds at Dryhill during the Cretaceous?

HINTS: sand grains; calcium carbonate; physical and chemical weathering; river transport ;

FIRST CYCLE: deposition.

What can you say about the deposition of the beds at Dryhill?

HINTS: Evidence for current strength, fossils, marine deposition; alternating conditions of deposition.

FIRST CYCLE: uplift

What can you say about the uplift and erosion of these beds at Dryhill?

HINTS: Evidence for amount of uplift; direction of compression; folding; Alpine mountains.

SECOND CYCLE: weathering and erosion

What evidence did you see for modern day biological, physical and chemical weathering; erosion, and quarrying.

SECOND CYCLE: deposition

What can you say about where the material weathered from these beds at Dryhill might eventually be deposited.

EARTH SCIENCE HOMEWORK

Pupil Name:

BUILDING STONE SURVEY: FIRST SITE.

ADDRESS OF BUILDING (OR DESCRIPTION OF THE SITE)

DRAW IN THIS SPACE A LABELLED SKETCH OF THE STONE USED AT THIS SITE.

DESCRIPTION OF FIRST ROCK TYPE.

IS IT METAMORPHIC IGNEOUS, OR SEDIMENTARY? (circle the answer)

WHY DO YOU THINK THIS ROCK HAS BEEN USED IN THIS PARTICULAR WAY?

[think about its strength, chemical and physical resistance, attractiveness for decoration etc.]

DESCRIBE ANY EVIDENCE OF PHYSICAL OR CHEMICAL WEATHERING

[explain how it has occurred & label it on your sketch]

EARTH SCIENCE HOMEWORK:

Pupil Name:

BUILDING STONE SURVEY: SECOND SITE.

<p>ADDRESS OF BUILDING (OR DESCRIPTION OF THE SITE)</p>	<p>DRAW IN THIS SPACE A LABELLED SKETCH OF THE STONE USED AT THIS SITE.</p>
<p>DESCRIPTION OF SECOND ROCK TYPE.</p> <p>IS IT METAMORPHIC IGNEOUS, OR SEDIMENTARY? (circle the answer)</p> <p>WHY DO YOU THINK THIS ROCK HAS BEEN USED IN THIS PARTICULAR WAY? [think about its strength, chemical and physical resistance, attractiveness for decoration etc.]</p> <p>DESCRIBE ANY EVIDENCE OF PHYSICAL OR CHEMICAL WEATHERING [explain how it has occurred & label it on your sketch]</p>	