



## Geography - Year 10 - Manifest

### Paper 1 - Living with the Physical Environment

45 minutes - 35% OF THE GCSE

**Content overview:** Unit 1 – Living with the physical environment; Section C

R

A

G

#### **Section C: Physical landscapes in the UK**

In this section, students are required to study [UK physical landscapes](#) and [Coastal landscapes in the UK](#), [River landscapes in the UK](#)

UK physical landscapes

Key idea	Specification content
The UK has a range of diverse landscapes.	An overview of the location of major upland/lowland areas and river systems.

Coastal landscapes in the UK

Key idea	Specification content
The coast is shaped by a number of physical processes.	Wave types and characteristics. Coastal processes: <ul style="list-style-type: none"> <li>● weathering processes – mechanical, chemical</li> <li>● mass movement – sliding, slumping and rock falls</li> <li>● erosion – hydraulic power, abrasion and attrition</li> <li>● transportation – longshore drift</li> <li>● deposition – why sediment is deposited in coastal areas.</li> </ul>
Distinctive coastal landforms are the result of rock type, structure and physical processes.	How geological structure and rock type influence coastal forms. Characteristics and formation of landforms resulting from erosion – headlands and bays, cliffs and wave cut platforms, caves, arches and stacks. Characteristics and formation of landforms resulting from deposition – beaches, sand dunes, spits and bars.

	<p>An <b>example</b> of a section of coastline in the UK to identify its major landforms of erosion and deposition.</p>			
<p>Different management strategies can be used to protect coastlines from the effects of physical processes.</p>	<p>The costs and benefits of the following management strategies:</p> <ul style="list-style-type: none"> <li>● hard engineering – sea walls, rock armour, gabions and groynes</li> <li>● soft engineering – beach nourishment and reprofiling, dune regeneration</li> <li>● managed retreat – coastal realignment.</li> </ul> <p>An <b>example</b> of a coastal management scheme in the UK to show:</p> <ul style="list-style-type: none"> <li>● the reasons for management</li> <li>● the management strategy</li> <li>● the resulting effects and conflicts.</li> </ul>			
<p>River landscapes in the UK</p>				
<p>Key idea</p>	<p>Specification content</p>			
<p>The shape of river valleys changes as rivers flow downstream.</p>	<p>The long profile and changing cross profile of a river and its valley.</p> <p>Fluvial processes:</p> <ul style="list-style-type: none"> <li>● erosion – hydraulic action, abrasion, attrition, solution, vertical and lateral erosion</li> <li>● transportation – traction, saltation, suspension and solution</li> <li>● deposition – why rivers deposit sediment.</li> </ul>			
<p>Distinctive fluvial landforms result from different physical processes.</p>	<p>Characteristics and formation of landforms resulting from erosion – interlocking spurs, waterfalls and gorges.</p> <p>Characteristics and formation of landforms resulting from erosion and deposition – meanders and ox-bow lakes.</p> <p>Characteristics and formation of landforms resulting from deposition – levées, flood plains and estuaries.</p> <p>An <b>example</b> of a river valley in the UK to identify its major landforms of erosion and deposition.</p>			
<p>Different management strategies can be used to protect river landscapes from the effects of flooding.</p>	<p>How physical and human factors affect the flood risk – precipitation, geology, relief and land use.</p> <p>The use of hydrographs to show the relationship between precipitation and discharge.</p> <p>The costs and benefits of the following management strategies:</p> <ul style="list-style-type: none"> <li>● hard engineering – dams and reservoirs, straightening,</li> </ul>			

embankments, flood relief channels

- soft engineering – flood warnings and preparation, flood plain zoning, planting trees and river restoration.

An **example** of a flood management scheme in the UK to show:

- why the scheme was required
- the management strategy
- the social, economic and environmental issues.

--	--	--