Year 10
Subject: Geography
Topic/Unit: UK physical landscapes - Rivers
When: HT6

Huntington School
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Overview: The aims of this unit are to develop an understanding of the biological and meteorological processes and features in different environments, and the need for management strategies governed by sustainability and consideration of the direct and indirect effects of human interaction with the Earth and the atmosphere. It focusses specifically on how physical processes work to shape the UK landscape and the impact that tis can have on our lives

Why this? Why now? This reintroduces the physical processes of erosion, transportation and deposition which will also be needed at the start of Year 11 in the coasts study and for the compulsory fieldwork study.

Building on…building to: Year 7 introduced the key physical processes of erosion, transportation and deposition in the coasts unit. This focusses on how the same processes work in a river landscape. It builds the foundations for water and carbon in Year 13 where students look at the synopticity between the two units.

Sequence summary:

- The long profile and changing cross profile of a river and its valley
- Fluvial processes – how they shape the land and the factors affecting them
- Characteristics and formation of landforms in each course of the river
- How physical and human factors affect flood risk and how hydrographs show this risk
- The costs and benefits of using hard and soft engineering to manage rivers
- How the City of York manages its flooding

Key Vocabulary:

- The long profile - The gradient of a river, from its source to its mouth
- The cross profile – The side-to-side cross section of a river channel
- Discharge - The quantity of water that passes a given point on a stream or river bank within a given period of time.
- Hydrograph - A graph which shows the discharge of a river, related to rainfall, over a period of time.

Assessments: Regular recall and retrieval tasks on whiteboards throughout each lesson to check understanding and dispel misconceptions. End of unit assessment exam questions from past papers.

Able and interested: Watch *Planet Earth : Fresh Water* on BBC iPlayer narrated by Sir David Attenborough. It tracks the journey of rivers from their mountain sources down to the sea, visually demonstrating erosional power and waterfall formation.

Inclusion, Personal Development and Wider Skills: Tasks are scaffolded to build confidence. Longer exam questions are explicitly broken down into sections

Homework and Independent Learning: Homework is set weekly. Tasks may include completing graphs, interpreting maps and graphs, creating revision material and answering exam questions