

How natural processes form beautiful landscapes looking at arid, glacial and fluvial processes and how humans interact with these.



Geographical Vocabulary

Source: Where a river begins.

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- □ **Mouth:** Where a river ends by merging into the sea/a lake/ body of water.
- Erosion: The geological process in which materials are worn away and transported by natural forces such as wind or water. Vertical is up and down, lateral is to the sides.
- Deposition: The geological process in which sediments, soil and rocks are added to a landform or land mass.
- **<u>Hydraulic action</u>**: A process of erosion which is provided by the force of water.
- Abrasion: A process of erosion where the river rubs stones that are being transported against the bed of a river thereby breaking it down.
- **Weathering**: Describes the breaking down or dissolving of rocks and minerals on the surface of the Earth.
- Hard engineering techniques: Using artificial structures to prevent or control flooding. They are usually expensive methods but they allow for big environmental improvements and financial savings.
- Soft engineering techniques: Natural processes which manage the flood risk, accepting that floods will occur. They aim to reduce and slow movement of water into a river channel to help reduce flood risk.
- □ **<u>Risk:</u>** A situation involving exposure to danger.
- **<u>Flood probability:</u>** The chance of a flood of a certain size occuring in any given year.
- Environment Agency: The Environment Agency is a non-departmental public body, established in 1995 with responsibilities relating to the protection and enhancement of the environment in England.
- **<u>Runoff</u>**: The draining away of water-generally towards a river or water source.

Skills and Enquiry

Describing river characteristics and landforms and geographical regions using a variety of different maps, explaining the physical processes involved in river feature formation. You should be able to review the changing physical landscapes created over time with discussion of the role of erosion, transport and deposition processes. Compare and reflect upon urban and rural challenges created through the impacts of small and larger-scale flood events. Understand and interpret photographs and maps of physical features. Extended writing. Analyse different graphs and charts to find evidence that supports your views regarding flood management. Carry out data analysis and data manipulation to analyze key charts and graphs.

The St Benet Biscop Geographer

It is important that we are aware of and understand the issues and challenges faced in our natural physical environment. This allows us to have an appreciation for the wider world we live in, which we should strive to support and develop at all times. We are part of a global community, that we should show stewardship for. You need to be aware of conflicting sides of arguments for topical issues such as flooding and flood management and sustainable development in order to discuss potential solutions. By studying the physical landscapes at a local level you will gather an appreciation for issues faced by individuals, to reiterate the premise that challenges are in a range of areas with different socioeconomic contexts. You will respect and understand the challenges faced by communities in different contexts from previous units of study.

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