

WELCOME TO GCSE GEOGRAPHY



WHERE WILL IT TAKE US TODAY?

TOPIC 3: DISTINCTIVE LANDSCAPES

3.2b: WHAT INFLUENCES THE LANDSCAPES OF THE UK?

b) River Landscape: River Severn Basin Case Study

13/05/2018

LEARNING IS SUCCESSFUL WHEN I ...



Know:

- ✓ **Where the River Severn flows**
- ✓ **The three stages of the river's course**
- ✓ **What landforms are found along the Severn and where**

Understand:

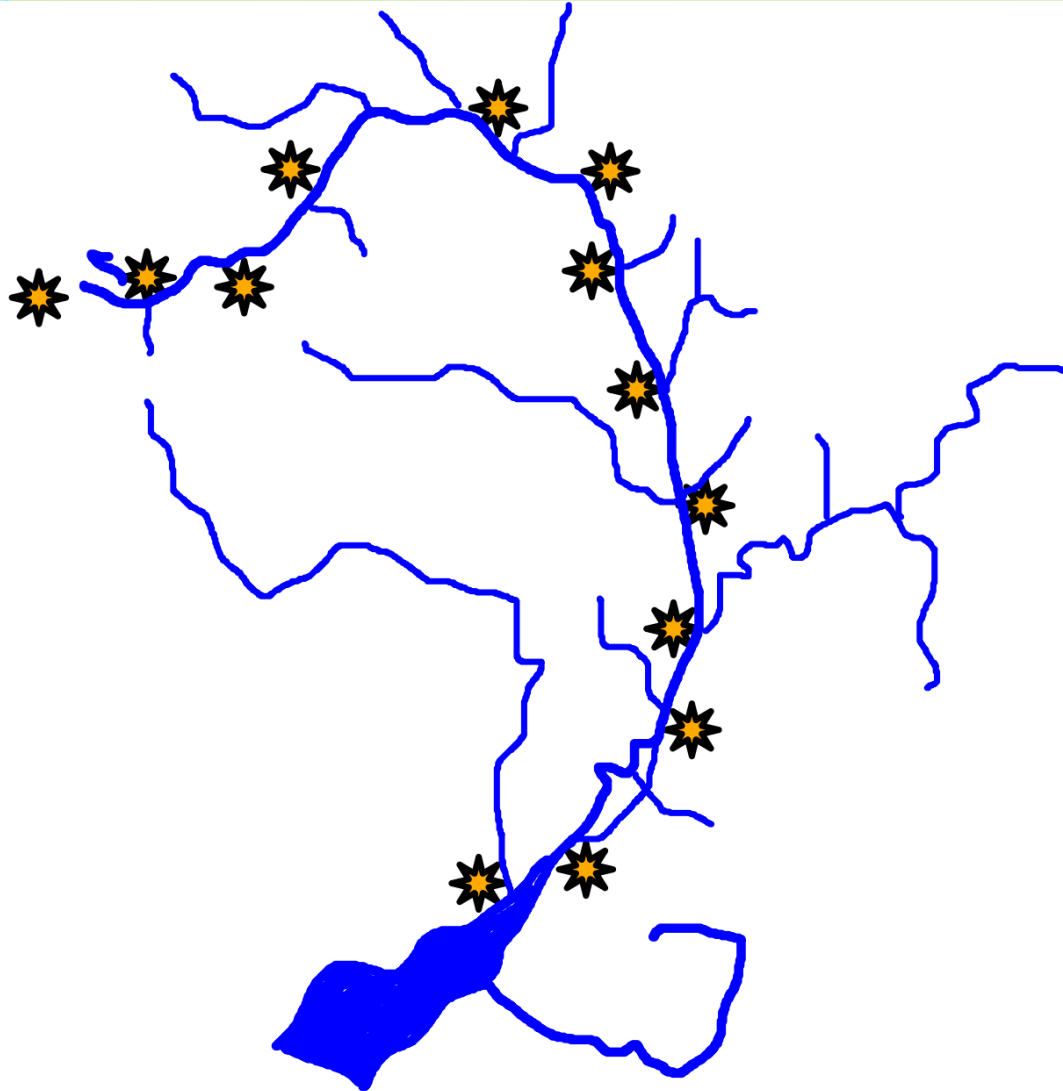
- ✓ **How geomorphic processes form river features**
- ✓ **How human activity, including management, works in combination with geomorphic processes to impact the landscape**

Employability Skills:

- ✓ **Resilience/Determination/Independence**

River Basin Landscape Case Study: The River Severn

River Basin Landscape Case Study: The River Severn Student Activities



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Clywedog Dam in
the upper course

Helps to regulate the
flow of the river and
reduce flood risk

Location	Geology	Time Period
Plynlimon	Peat & mudstone;	Ordovician
Shrewsbury	Mud and sandstone	Quaternary
Ironbridge	Mud, silt, sandstone	Carboniferous
Worcs	Mud, sand, gravel	Triassic
Bristol	Mudstone	Triassic



source



Severn: upper
course
features

<https://www.bbc.co.uk/education/clips/z3dkxnb>



the river



Severn: lower
course &
estuary

<http://www.bbc.co.uk/programmes/p00xnk3n>



<http://www.primaryhomeworkhelp.co.uk/riversevern/index.html>

TWO Landmarks

Home Episodes Clips

The River Severn, The Course of the River Clips

▼ Filter by



Creation of a flood plain in the Severn

DURATION: 00:25



Middle course of the River Severn

DURATION: 00:32



The Severn bore

DURATION: 02:13



River formation - meanders

DURATION: 01:11



Effect of tide on rivers

DURATION: 01:56



Meanders combining

DURATION: 00:40



Introducing the River Severn

DURATION: 00:51



Creation of a flood plain in the Severn

DURATION: 00:26



The Severn Bore

DURATION: 02:04



Effect of Tide on Rivers

DURATION: 01:49



Meanders Combining

DURATION: 00:33



Middle course of the river Severn

DURATION: 00:32



Course of The River Severn

DURATION: 00:19



River Formation - Meanders

DURATION: 01:11



The Severn Bore

DURATION: 02:13



Meanders Combining

DURATION: 00:40



River Formation - River Meanders

DURATION: 01:20



Middle Course of the River Severn

DURATION: 00:39



Severn River Valley and Tributaries

DURATION: 00:31



Effect of Tide on Rivers

DURATION: 01:57

<http://www.bbc.co.uk/programmes/p00fgsk7/clips>







Demountable barriers can be put in place during a flood to stop the water from causing damage, injury and death.

Although, the initial cost is very expensive, the barriers will save money in the long-term that would have to be spent on repairing damage.

The barriers are designed to 'blend in' with the surrounding environment so they're not 'eye-sores' to people. Outcome = SUSTAINABLE



A pumping station is used to pump the water out of the town quicker to prevent flooding.

Although this may work for Shrewsbury, it may cause problems further downstream which means it is not sustainable.



Raised buildings prevent damage to houses if the river was to flood. Outcome = SUSTAINABLE



Land Use Zoning – the land is used for open space or leisure/sport activities so it is allowed to flood during the winter when it is unlikely that the land will be being used. Trees and vegetation – when it rains, the water will be intercepted. Grass – the grass allows the water to be infiltrated into the ground when it rains.



Bank strengthening

Demountable barriers

Vegetation intercepts the rainfall and grassed areas allow excess water to infiltrate rather than contribute to the base flow of the river.



Demountable barriers



Humans managing flooding

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