### 27/01/21

### T: Erosion and Deposition of a river.

### Success Criteria

- I can describe how water erodes a river bank.
- I can describe how deposition changes the shape of a river.
- I can tell you how meanders form.
- I can tell you how an oxbow lake forms.
- I can describe how waterfalls are formed.
- I can identify meanders on a map and photograph.
- I can identify oxbow lakes on a map and photograph.

### What Can You Remember?

#### **Questions**

What part of a river's course is shown?

What features can you see?

How would you describe the river?

- Speed
- Features
- Valley shape
- Channel width





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## Erosion and Deposition

# Why don't rivers travel in straight lines?

- They have to avoid obstacles as they flow downhill.
- People have altered river courses over time.

Erosion and deposition can change the shape of a river.

What do you think erosion and deposition are?







Press the play button to watch this video which explains how meanders form.



The River Conwy - erosion and deposition - GCSE Geography - BBC Bitesize

## Oxbow Lakes

Watch this video which shows what happens to meanders over time:

- As meanders grow, sometimes the water can erode away so much of the river's banks that two meanders will merge together.
- When this happens, the water will take this newer, shorter route and not travel around the previous course.
- Over time, deposition of the river's load will block off the old part of the river, and an oxbow lake will form.



Oxbow lakes - GCSE Geography - BBC Bitesize

## Oxbow Lakes

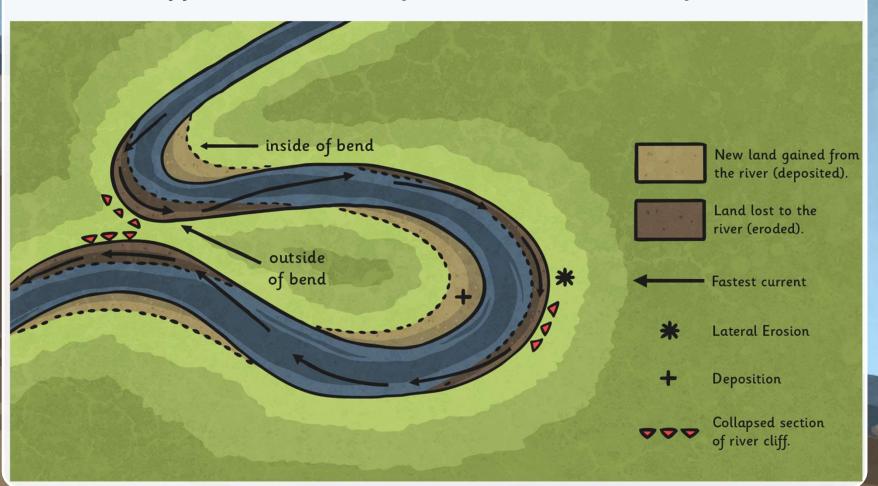
- The map and aerial photograph show the same part of the River Trent.
- Can you see the oxbow lake?
- As the river no longer supplies the lake with water, it is not shown on the map.





### Let's Make it Real

What happened: on the inside of the curve? On the outside of the curve?



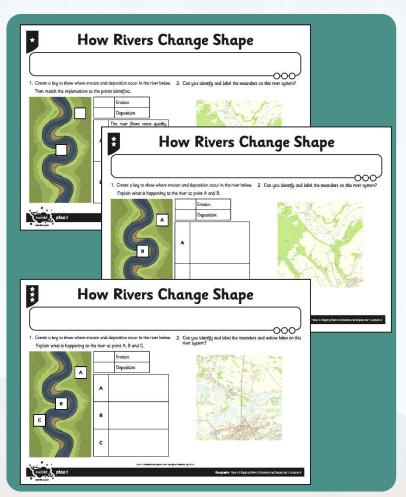
# How Rivers Change Shape

### **Activity**

Label your river diagram to show where erosion and deposition occur on the river.

**Challenge:** Can you annotate the maps to show where meanders and oxbow lakes are formed?





# Waterfalls

What would happen to the shape of this waterfall over time?

