

Upper course landforms:

V-shaped valley

Task 1: Sort these statements (1-4) to explain its formation.

This vertical erosion deepens the valley, making the sides steeper and exposed.

☐

As the small stream flows downhill steeply, the bedload will erode downwards and scrape away the bottom of the channel (vertical erosion).

☐

Over time, weathering and gravity wear away the steep valley sides, forcing material into the stream, which it uses to cut the valley deeper.

☐

A small stream will naturally follow small depressions in the landscape.

☐

Task 2: Annotate this picture from the upper course of a river to show its main features and describe how they were formed.



Waterfalls

Task 1: Add labels to this diagram.



Task 2: Write a short paragraph to explain how a waterfall forms; use the words on the board.

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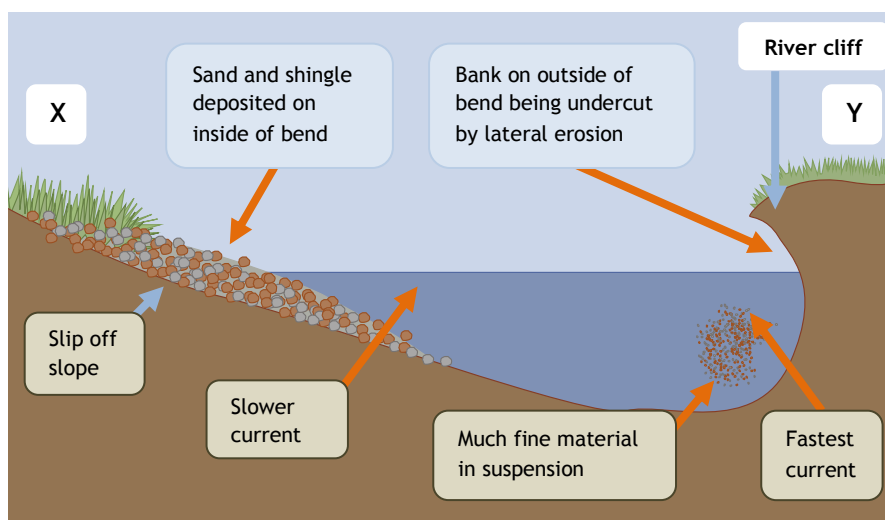
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Middle course landforms:

Meanders: Label this diagram at points X and Y to explain what is happening at each of these locations.



Ox-bow lakes: Write your own explanation of how an ox-bow lake is formed.

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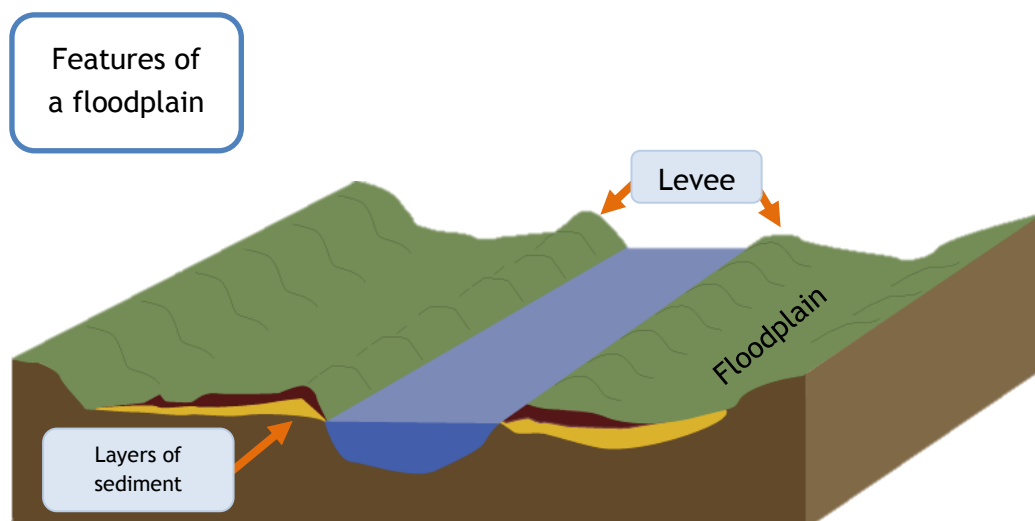
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Lower course landforms:

Floodplains and levees: Label this diagram to explain what is happening to form both these features.



Floodplain	Levee
<p>This is a wide area of land found on either side of a river.</p> <p>When a river floods, it deposits</p> <p>Layers of silt build up to provide a thick layer of fertile making these areas perfect for</p>	<p>A levee is a river bank formed after many events. When the river overflows its banks, the velocity and is deposited. Coarser sands are dropped to the river and finer silts are carried Over the years the are raised.</p>

Word box:

alluvium raised flat sediment levees decrease
silt farming closer further flood

Estuaries: Answer the following questions about estuaries.

1. Why are estuaries known as transitional zones?

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2. What is the main process operating in estuaries?

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3. When is most sediment deposited?

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4. What are mudflats, how are they formed and what can they be used for?

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Acknowledgements

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