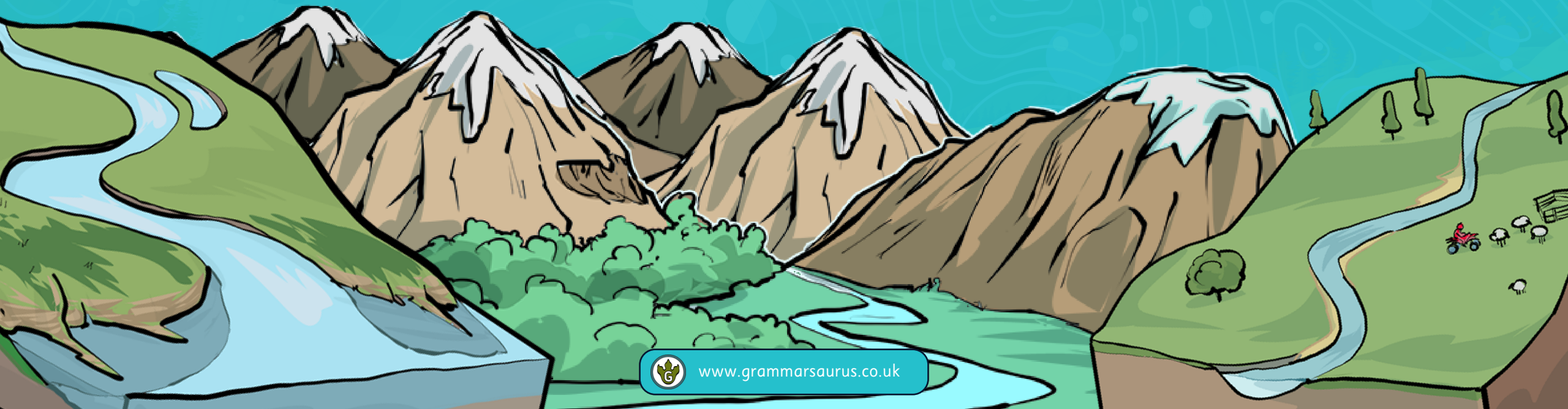


# Rivers

What are rivers, and how are they formed?



# What are the features of my local river?



## Key question we will answer:

What are rivers, and how are they formed?

**Key geographical knowledge we will use:** Locational Knowledge, Place Knowledge, Human and Physical Geography

**Key geographical concepts we will use:** Place, Space, Scale, Physical and Human Processes and Interdependence

## Key question we will answer:

What can I learn about rivers from studying the River Trent?

**Key geographical knowledge we will use:** Locational Knowledge, Place Knowledge, Human and Physical Geography

**Key geographical concepts we will use:** Place, Space, Scale, Physical and Human Processes and Interdependence

## Key question we will answer:

What data can I collect from rivers in my region?

**Key geographical knowledge we will use:** Locational Knowledge, Place Knowledge, Human and Physical Geography, Geography Skills and Fieldwork

**Key geographical concepts we will use:** Place, Space, Scale, Physical and Human Processes and Interdependence

## Key question we will answer:

How can I collect data from conducting fieldwork at a local river?

**Key geographical knowledge we will use:** Locational Knowledge, Place Knowledge, Human and Physical Geography, Geography Skills and Fieldwork

**Key geographical concepts we will use:** Place, Space, Scale, Human Processes, Environmental Impact and Interdependence

## Key question we will answer:

How will I present the data collected from conducting fieldwork at a local river?

**Key geographical knowledge we will use:** Locational Knowledge, Place Knowledge, Human and Physical Geography, Geography Skills and Fieldwork

**Key geographical concepts we will use:** Place, Space, Scale, Human Processes, Environmental Impact and Interdependence



# Key vocabulary for this lesson:

**erosion** – moving water or wind causing tiny pieces of the Earth's surface to be moved from one place to another

**source** – the point at which a river starts

**upper course** – the first stage of the river, often located on high ground

**middle course** – the second stage of a river, where the land is flatter and the river wider

**lower course** – the land is flat, and the river is at its widest

**valley** – an area that lies between ranges of hills or mountains that a river flows through

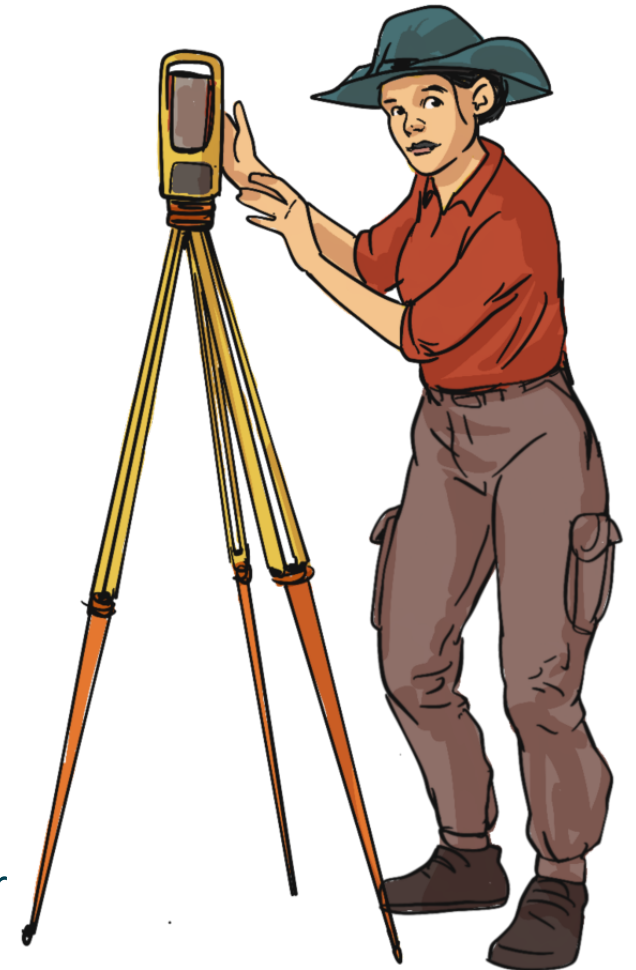
**channel** – the river bed and banks in which water flows

**silt** – solid, dust-like sediment that water, ice and wind transport and deposit



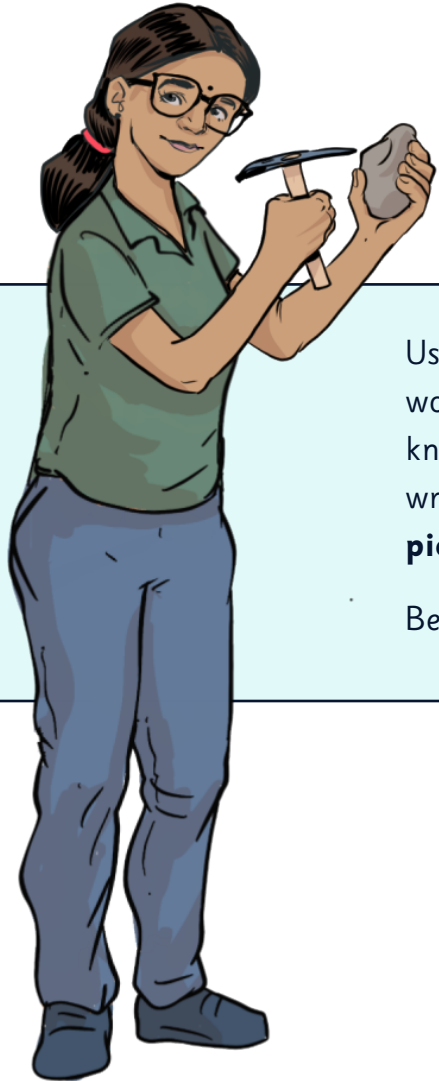
# Key vocabulary for this lesson:

- tributaries** – small streams that join the larger river
- meander** – the natural bend in a river
- oxbow lake** – a section of a meander that becomes isolated from the main river channel and eventually dries out
- mouth** – the point where the river ends
- estuary** – the point where the river meets the sea in the lower course
- floodplain** – a flat area surrounding a river or stream
- delta** – a wetland area that forms as river waters empty into a larger body of water





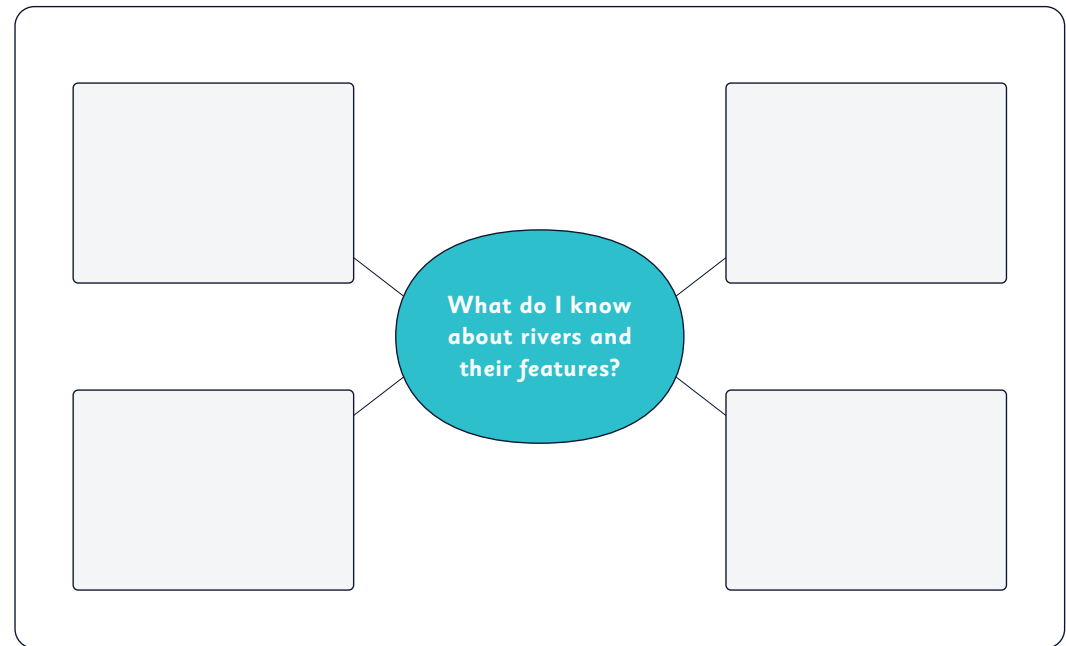
# Pre-assessment mind map



Use the **mind map** on your pre-assessment worksheet to write down everything you already know about **rivers and their features**. You can write down **keywords or facts or draw pictures**.

Be ready to **share your feedback** with the class.

## Pre-assessment mind map



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[www.grammarsaurus.co.uk](http://www.grammarsaurus.co.uk)

# What is a river?



Hi! My name is **Charlotte**. I am a **hydrologist**. I study rainfall, rivers and other waterways as part of my job.

A river is a **moving body of water** that drains the land. It flows from its **source** on high ground, across land and into another body of water such as a lake, the sea, an ocean or even another river. A river flows along a **channel** with **banks** on both sides and a **bed** at the bottom.





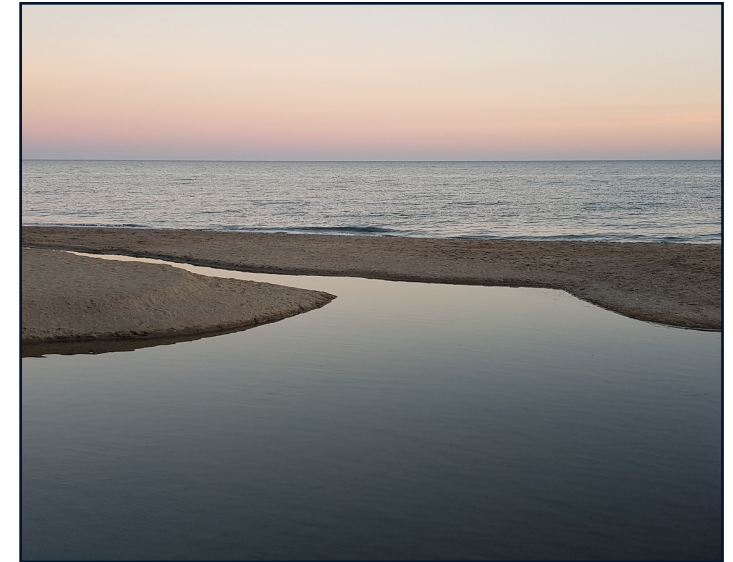
# Let's discuss



Study the **photographs** on the slide and discuss the **following questions** with your learning partner:

- What are the **photographs** showing?
- What does the **landscape** look like?
- What **features** can be seen?

Be ready to **share your feedback** with the class before the answers are revealed.





# Let's discuss

## answers

These images show a river at different points in its journey: **upper, middle and lower course**. A river can take on **different characteristics** at each course.

You can see how the river begins its journey in **woodlands** before passing through **towns** and finally entering the **sea**.

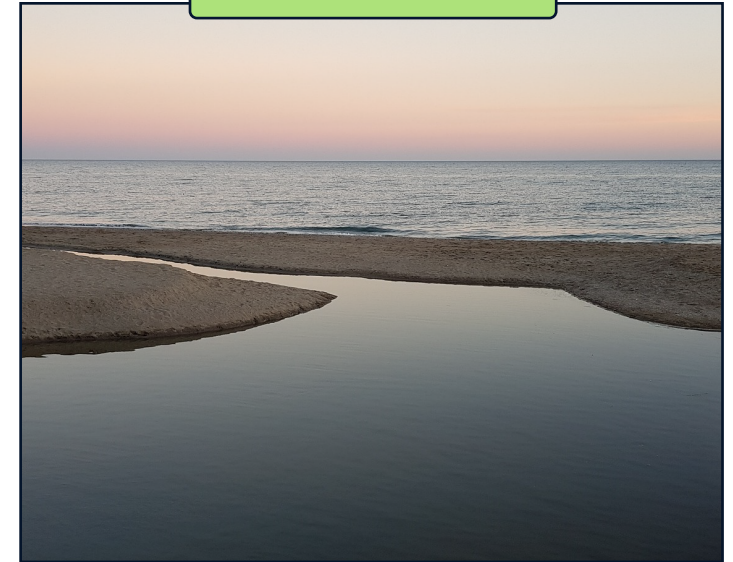
upper course



middle course



lower course





# Let's discuss

## answers

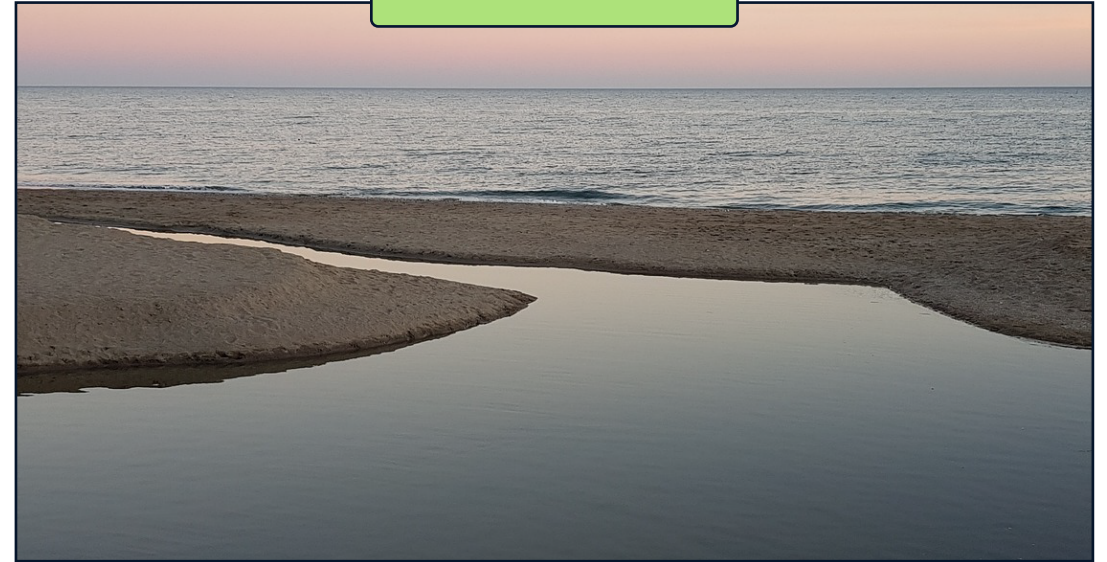


The river begins its journey at the **source**, and eventually, it widens as it passes through the **middle course**, twisting and turning (**meandering**) before entering the sea at the **river's mouth**.

**source**



**mouth**



# What are the courses of a river?

To learn more about how a river is formed and its courses, let's watch this video:

[https://www.youtube.com/watch?v=PDHvt7pNEc4&ab\\_channel=Grammarsaurus](https://www.youtube.com/watch?v=PDHvt7pNEc4&ab_channel=Grammarsaurus)

Make sure you have a pen and some paper ready to take notes!



How is a river  
formed?



# Let's recap



Now that we have learned about a **river's upper and middle courses** let's recap what you know. Use the **keywords** below as prompts and discuss what you know about each **feature of a river** with your learning partner:

- waterfall
- meander
- oxbow lake

Be ready to **share your feedback** with the class.



# Matching activity

Look at the **courses, features and definitions of a river.**

**Match** each one correctly with your learning partner. There will be **several matches for each course!**

Be ready to **share your feedback** with the class before **answers are revealed.**

upper course

middle course

lower course

meander

estuary

floodplain

waterfall

oxbow lake

A steep drop in the course of a river caused by rock being worn away.

A bend in the river channel caused by erosion.

A point where a river meets the sea.

A section of a meander that becomes isolated from the main river channel and eventually dries out.

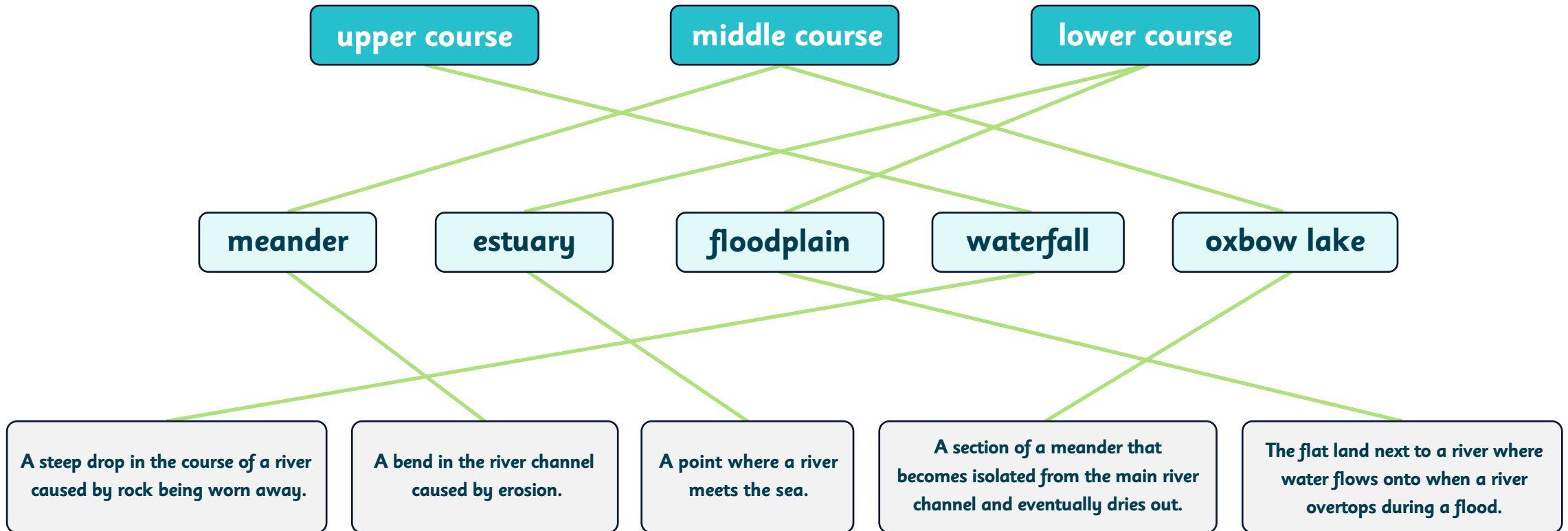
The flat land next to a river where water flows onto when a river overtops during a flood.





# Matching activity

answers



# True or false activity

Read the statements below with your learning partner and decide whether they are **true or false**.

Be ready to **share your feedback** with the class before the answers are revealed.

	True	False
A river has three different course stages called <b>upper, middle and lower</b> .	<input type="checkbox"/>	<input type="checkbox"/>
<b>Waterfalls</b> are formed in the lower course of a river.	<input type="checkbox"/>	<input type="checkbox"/>
A river will <b>meander</b> most in its lower course.	<input type="checkbox"/>	<input type="checkbox"/>
<b>Oxbow lakes</b> do not dry over time but remain as permanent features.	<input type="checkbox"/>	<input type="checkbox"/>
Salt water mixes with fresh water to become what is known as <b>brackish water</b> .	<input type="checkbox"/>	<input type="checkbox"/>
When rivers flood, they can leave behind a <b>layer of silt</b> which in time, raises the river bank.	<input type="checkbox"/>	<input type="checkbox"/>
<b>The mouth</b> of a river is where a river begins.	<input type="checkbox"/>	<input type="checkbox"/>



# True or false activity

## answers

True

False

A river has three different course stages called **upper, middle and lower**.



**Waterfalls** are formed in the lower course of a river.



**False. Waterfalls are formed in the upper course.**

A river will **meander** most in its lower course.



**False. A river will have the most meanders in the middle course. When a river reaches the lower course, it follows a more direct path.**

**Oxbow lakes** do not dry over time but remain as permanent features.



**False. Oxbow lakes do dry up over time and are not permanent features.**

Salt water mixes with fresh water to become what is known as **brackish water**.



When rivers flood, they can leave behind a **layer of silt** which in time, raises the river bank.



**The mouth** of a river is where a river begins.



**False. The source of a river is where a river begins.**



# Activity 1



Use the knowledge you have gained to **label each river feature correctly** and complete the activities on your activity 1 worksheet.

Key geographical knowledge we will use: Locational Knowledge, Place Knowledge, Human and Physical Geography  
Key geographical concepts we will use: Place, Space, Scale, Physical and Human Processes and Interdependence

★★★★

## What are rivers, and how are they formed?

Use the knowledge you have gained to describe the **formation of a river**, including as can. Use the **letters as a guide** for each feature.

Key geographical knowledge we will use: Locational Knowledge, Place Knowledge, Human and Physical Geography  
Key geographical concepts we will use: Place, Space, Scale, Physical and Human Processes and Interdependence

## What are rivers, and how are they formed?

Use the knowledge you have gained to **label each river feature** the **formation of waterfalls** when you're done.

Key geographical knowledge we will use: Locational Knowledge, Place Knowledge, Human and Physical Geography  
Key geographical concepts we will use: Place, Space, Scale, Physical and Human Processes and Interdependence

★

## What are rivers, and how are they formed?

Use the knowledge you have gained to **label each river feature correctly**. Complete the **question** below about the **formation of waterfalls** when you're done.

**key vocabulary:**

- delta
- meander
- mouth
- tributary
- source
- floodplain
- confluence
- oxbow lake

Write a description of one of the **courses of a river**. Include how the course might look and what features you might find there.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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# Challenge



Using a **paper or online map**, find a river near where you live. Follow and look closely at the river and see if you can **answer the children's questions**.

Key geographical knowledge we will use: Locational Knowledge, Place Knowledge, Human and Physical Geography  
Key geographical concepts we will use: Place, Space, Scale, Physical and Human Processes and Interdependence

## Challenge

Using a **paper or online map**, find a river near where you live. Follow and look closely at the **river** and see if you can answer the children's questions.



What is the **name of the river**?

Where is the **source** of the river?

Are there any **towns, mountains or hills** nearby that you can name?

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Can you find and name any **tributaries** that flow into your river on its course?



Where is the **mouth** of the river? What **sea, wetland or estuary** does it flow into? Are there any **towns or cities** nearby?

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